

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2006
International Mechanical Code	2006	Uniform Code for Building Conservation	
International Plumbing Code	2006	ADA Accessibility Guidelines	ICC/ANSI 117.1 1998
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: B (BUSINESS)

Change in Use: Yes No Mixed Occupancy: Yes No  
Special Use and Occupancy (e.g. High Rise, Covered Mall): \_\_\_\_\_

B. Seismic Design Category: N/A Design Wind Speed: N/A mph

C. Type of Construction (circle one):  
I I II II III III IV V V  
A B A B A B HT A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
North: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: NO Nonseparated Uses: NO

F. Sprinklers:  
Required: NO Provided: NO Type of Sprinkler System: N/A

G. Number of Stories: 1 Building Height: 16'

H. Actual Area per Floor (square feet): EXISTING: 19,313 SF NEW: 0 SF

I. Fire Resistance Rating Requirements for Building Elements (hours).  
Fire-Resistive Requirements: Type: V-B  
Bearing walls - Interior: 0  
Exterior Non-Bearing Walls: 0  
Structural Frame: 0  
Partitions: 0  
Shafts: 0  
Floors - Ceilings: 0  
Roofs - Ceilings: 0

J. Design Occupant Load: 19,313 / 100 = 194  
Exit Width Required: 39 Exit Width Provided: 540

PROJECT TEAM

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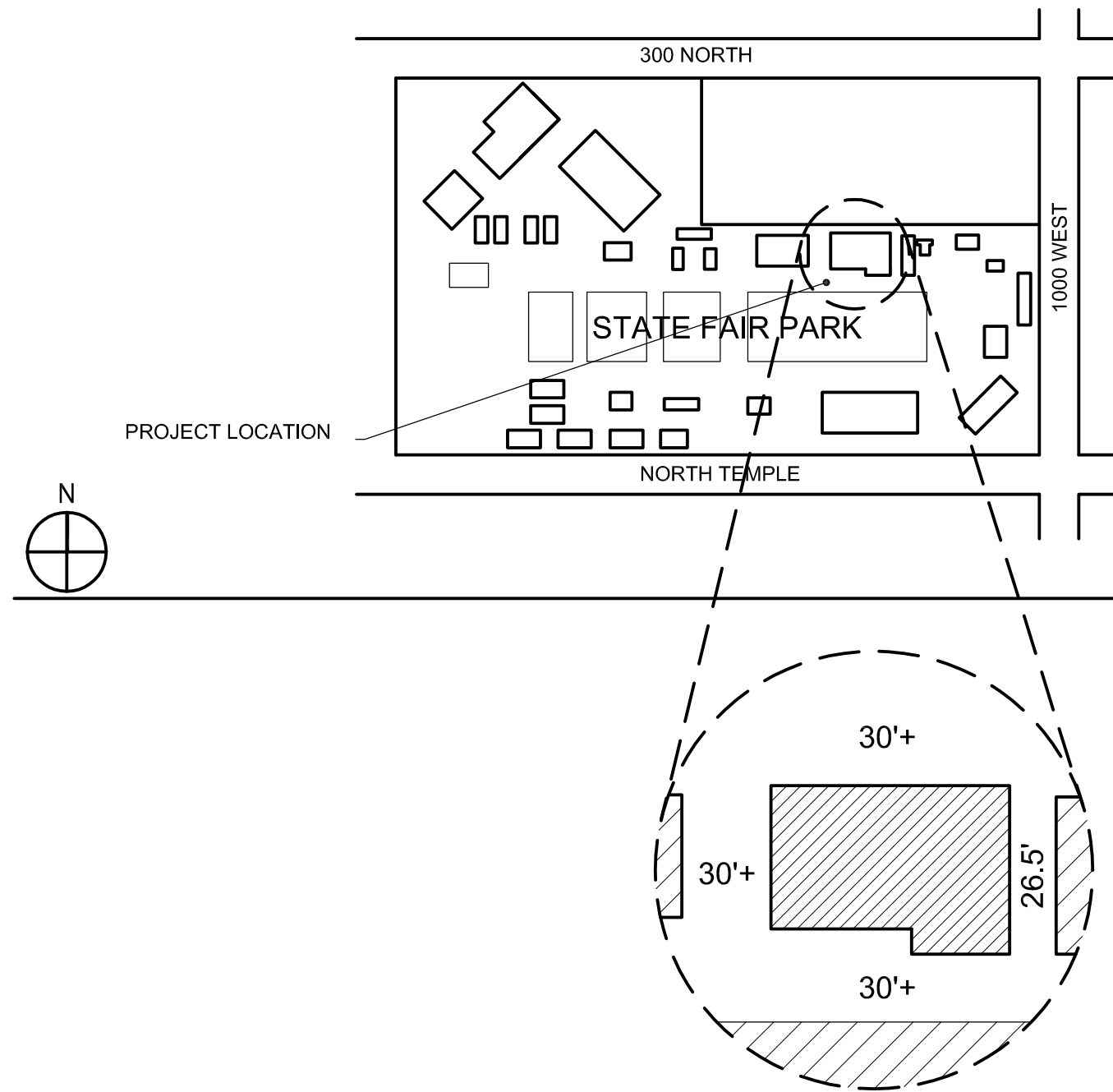
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VINCINITY MAP



SYMBOL LEGEND

**ROOM NAME**  
ROOM NUMBER  
1ST DIGIT INDICATES FLOOR  
DOOR NUMBER  
HARDWARE GROUP  
FRAME NUMBER  
DOOR SYMBOL DOOR TYPE  
NORTH WALL FINISH  
BASE FINISH  
FLOOR FINISH  
FINISH SYMBOL

**T.O. ELEV. =**  
ELEVATION MARKER

**MATCH LINE**  
LINE MATCH SYMBOL  
AREA 1  
AREA 2

**DETAIL REFERENCE**  
A1  
A100

**EXTERIOR ELEVATION**  
A1  
A100

**INT. ELEVATION SYMBOL**  
A1  
A100

**GLAZING TYPE**  
A1  
A100

**BUILDING SECTION**  
A1  
A100

**WALL SECTION**  
A1  
A100

**WALL TYPE**  
6

**CEILING TYPE AND HEIGHT**  
ACT  
8'-0"

**WINDOW NUMBER**  
1

**SPOT ELEVATION MARKER**  
100'-0"

GRAPHIC SYMBOLS

**EARTH**  
**CEMENTIOUS BACKER BD.**  
**CMU**  
**BRICK**  
**WOOD BLOCKING**  
**WOOD FRAMING**

**STEEL**  
**RIGID INSULATION**  
**ASPHALT PAVING**  
**DENSGLOSS SHEATHING**  
**GRAVEL**  
**CONCRETE**

**PLYWOOD**  
**WOOD FINISH**  
**ALUMINUM**  
**BATT INSULATION**  
**CERAMIC TILE**  
**GYPSUM SHEATHING**

DRAWING INDEX

**GENERAL**  
GI101 GENERAL INFORMATION

**ARCHITECTURAL**  
AD101 DEMOLITION FLOOR PLAN  
AE101 FLOOR PLAN  
AE111 REFLECTED CEILING PLAN  
AE401 INTERIOR ELEVATIONS

**STRUCTURAL**  
SEE DETAIL BOOK IN PROJECT MANUAL

**MECHANICAL**  
ME001 MECHANICAL NOTES AND SYMBOL LEGEND  
ME501 MECHANICAL SCHEDULES AND DETAILS  
MD101 MECHANICAL DEMOLITION FLOOR PLAN  
MH101 MECHANICAL FLOOR PLAN  
PE501 PLUMBING DETAILS & SCHEDULES  
PD101 PLUMBING DEMOLITION FLOOR PLAN  
PL101 PLUMBING FLOOR PLAN

**ELECTRICAL**  
E001 SYMBOLS SCHEDULES AND NOTES  
E101 ELECTRICAL DEMOLITION PLAN  
E201 LIGHTING PLAN  
E301 POWER PLAN  
E401 PANELBOARD SHED. AND ONE-LINE DIAGRAM  
E501 ELECTRICAL DIAGRAMS  
E502 ELECTRICAL DIAGRAMS  
E503 ELECTRICAL DIAGRAMS

NOTE: THE SHEETS LISTED ABOVE REPRESENT A FULL SET OF CONSTRUCTION DOCUMENTS AND INCLUDE A DETAIL BOOK AND A PROJECT MANUAL AND SHALL NOT BE SEPERATED. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR REVIEWING ALL THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO DRAWINGS, DETAILS, PROJECT MANUAL, SPECIFICATIONS AND ANY AND ALL ADDENDA ISSUED.

DRIVERS LICENSE OFFICE  
STATE FAIR PARK  
DFCM PROJECT # 07009370  
155 N. 1000 West Salt Lake City, Utah 84116

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Department of Administrative Services

Division of Facilities  
Construction & Management  
4110 State Office Building  
Salt Lake City, Utah 84114  
Phone: (801) 538 - 3018  
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APPROVALS

Prime Agency \_\_\_\_\_ Date \_\_\_\_\_  
DFCM \_\_\_\_\_ Date \_\_\_\_\_  
APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

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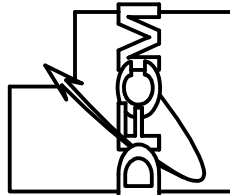
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Axis Job # 0633  
Owner # DFCM # 07009370  
Date 7-16-2007  
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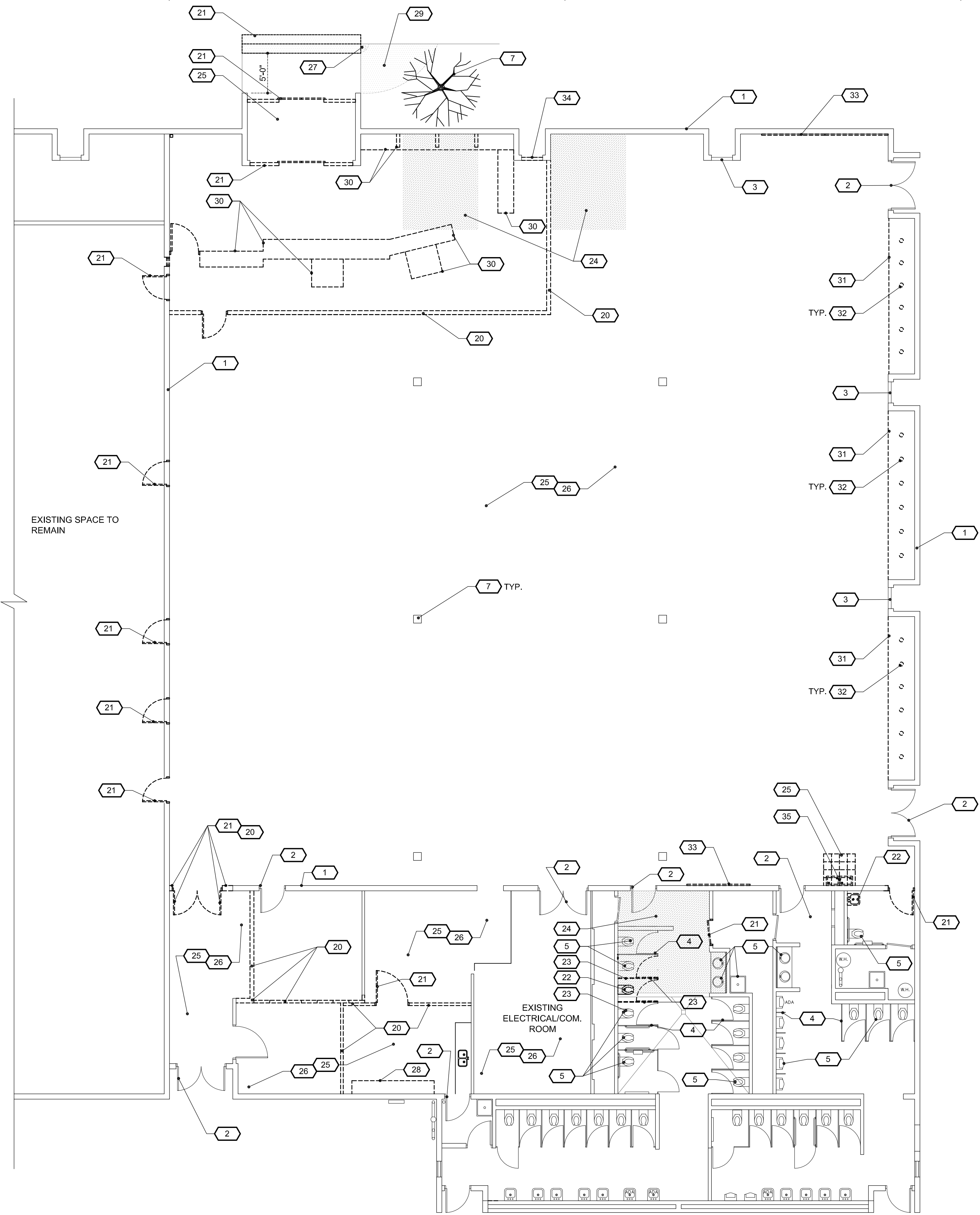
INFORMATION SHEET

GI101

Axis Architects



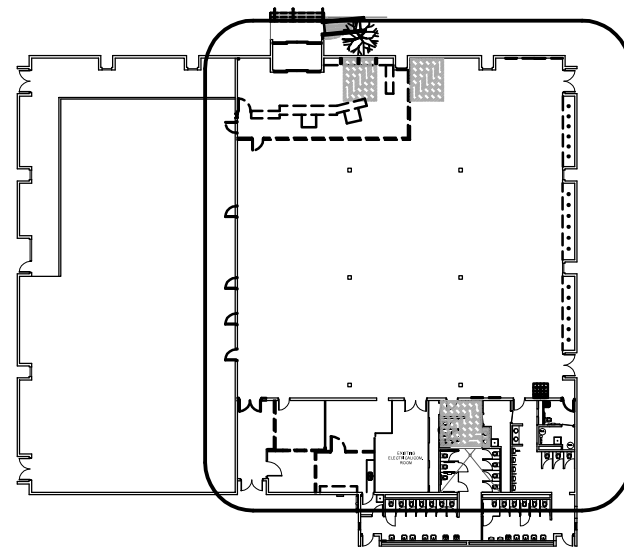
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DEMOLITION KEYNOTE LEGEND

- 1 EXISTING WALL TO REMAIN
- 2 EXISTING DOOR AND FRAME TO REMAIN
- 3 EXISTING WINDOW TO REMAIN
- 4 EXISTING PARTITION TO REMAIN
- 5 EXISTING PLUMBING FIXTURE TO REMAIN
- 6 EXISTING WALL TILE TO REMAIN
- 7 EXISTING TO REMAIN
- 20 REMOVE WALL
- 21 REMOVE DOOR AND FRAME AND SALVAGE FOR OWNER
- 22 REMOVE PLUMBING FIXTURES AND ASSOCIATED PLUMBING - CAP OFF - SALVAGE FOR OWNER.
- 23 REMOVE TOILET COMPARTMENT PARTITION
- 24 REMOVE CONCRETE SLAB - REMOVE UNUSED PLUMBING TYP. AT HATCHED AREA.
- 25 REMOVE CARPET AND OTHER FLOOR FINISH
- 26 REMOVE CEILING TILE OR OTHER CEILING
- 27 REMOVE EXISTING CONCRETE RAMP, AND CURB
- 28 REMOVE CABINET AND PLUMBING
- 29 REMOVE BOLLARD & GUARDRAIL
- 30 REMOVE CABINET
- 31 REMOVE DISPLAY CABINET
- 32 REMOVE AND SALVAGE LIGHT FIXTURES. PROTECT AND STORE UNTIL TURNED OVER TO OWNER'S REPRESENTATIVE.
- 33 REMOVE SLAT BOARD DISPLAY.
- 34 REMOVE WINDOW & FRAME - SALVAGE FOR OWNER.
- 35 REMOVE EXISTING WATER COOLER & ASSOCIATED PLUMBING, CAP OFF PLUMBING. STORE FIXTURE UNTIL REINSTALLATION PER MECHANICAL.
- 36 CUT AND REMOVE EXISTING STAIR NOSINGS AND TREADS AS SHOWN.

KEY PLAN

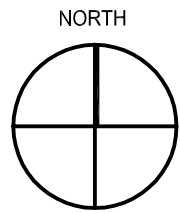


NOTES

- 1. CONTRACTOR TO PROTECT EXISTING BLDG. DURING CONSTRUCTION INCLUDING FINISHES, DOORS AND FRAMES ETC.
- 2. SEE ELECTRICAL AND MECHANICAL FOR ADDITIONAL DEMOLITION INFORMATION & DRAWINGS.

B3 DEMOLITION PLAN

SCALE: 1/8"=1'-0"



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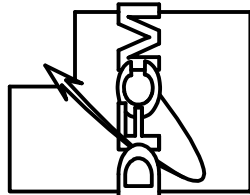
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Date 7-16-2007  
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DEMOLITION

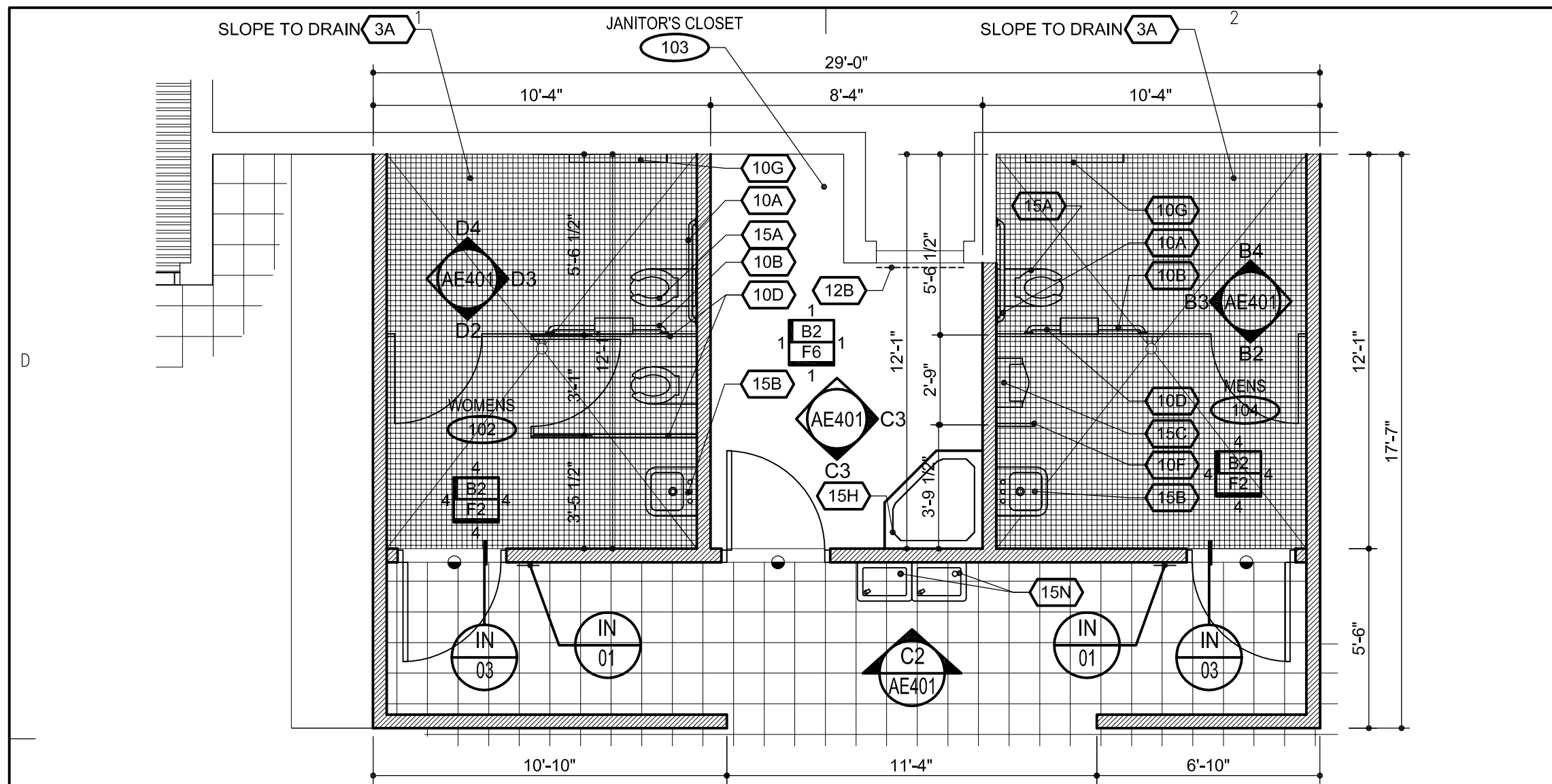
FLOOR PLAN

AD101

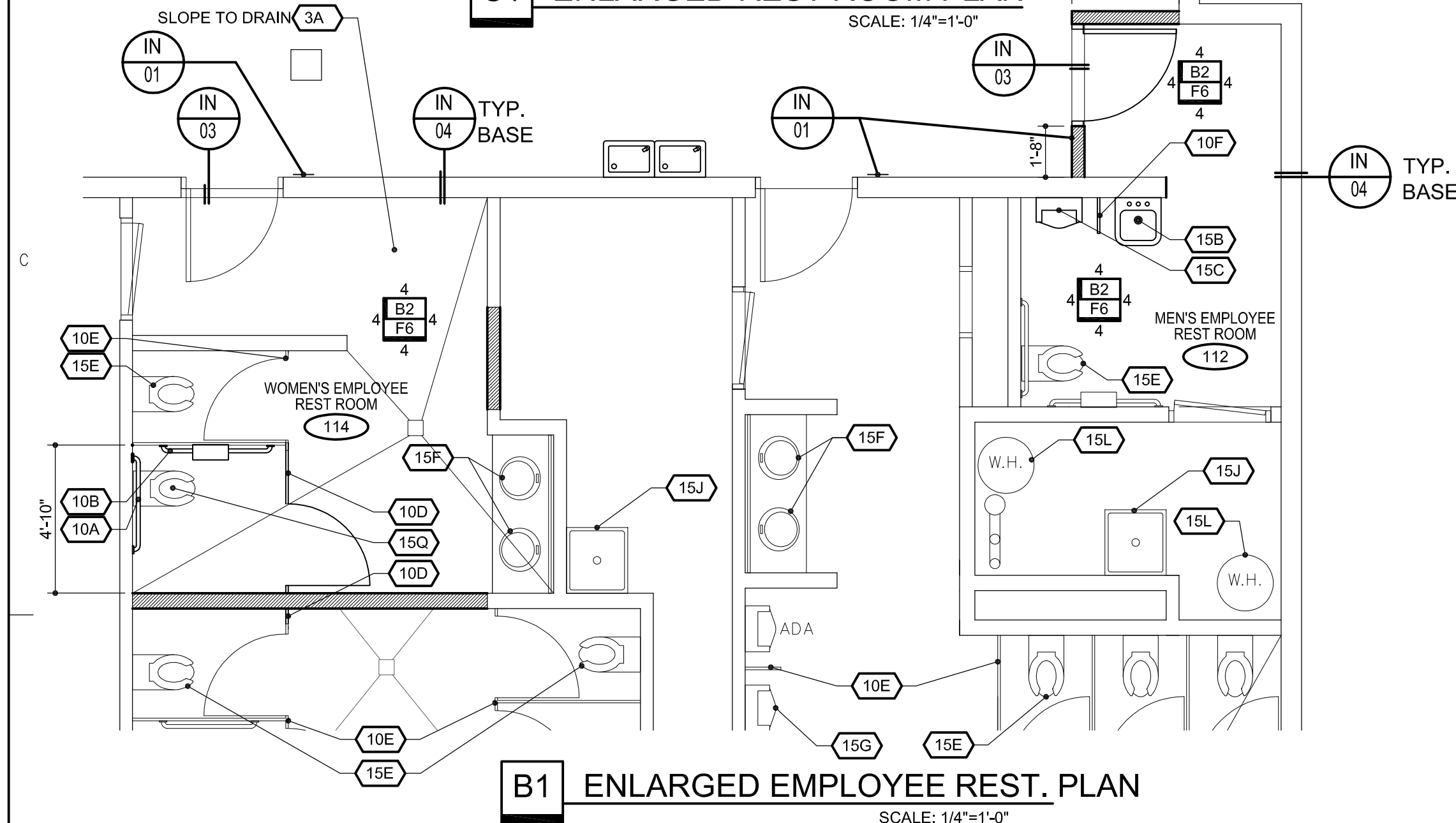
Axis Architects



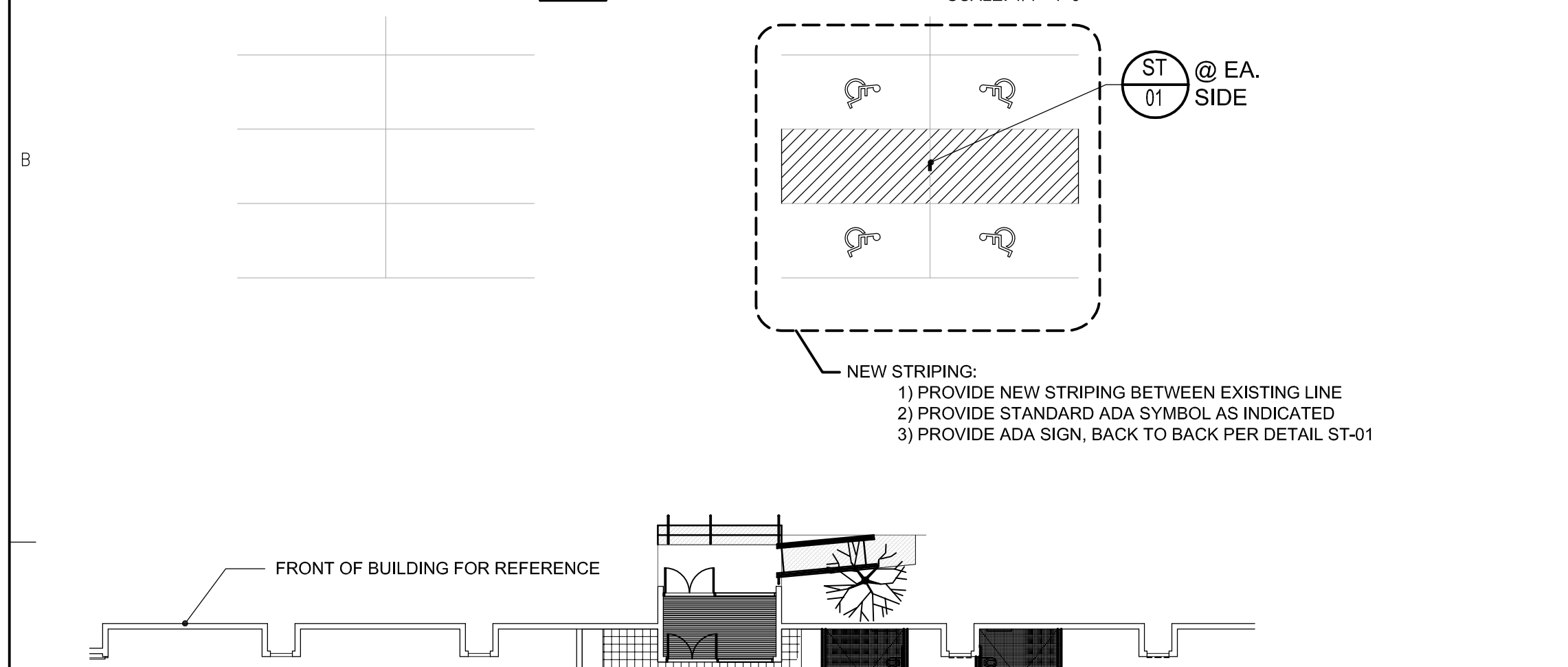
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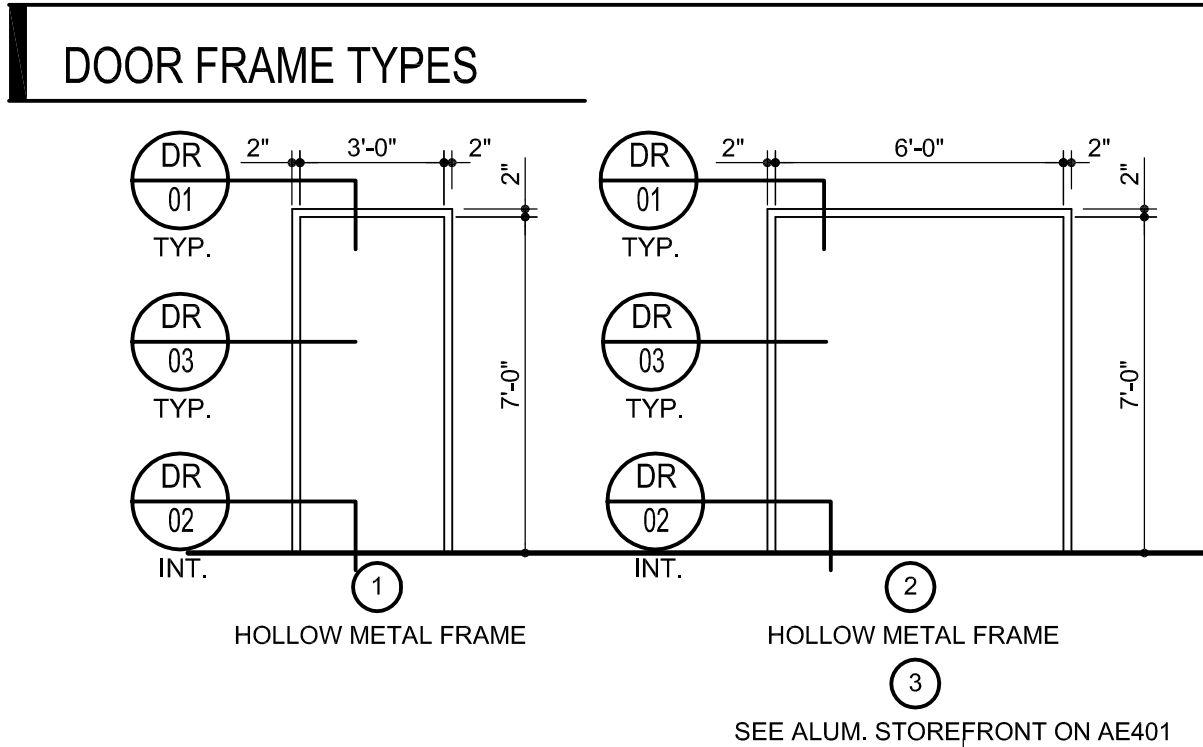
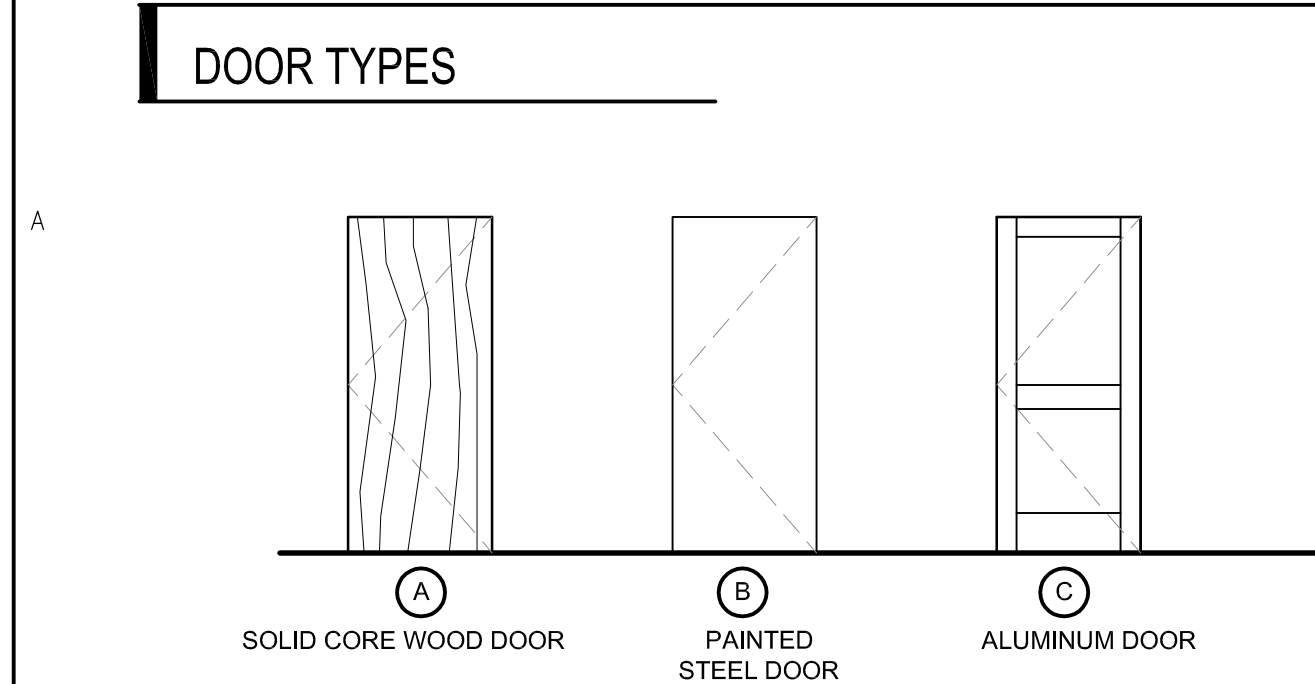
**C1 ENLARGED REST ROOM PLAN**  
SCALE: 1/4"=1'-0"



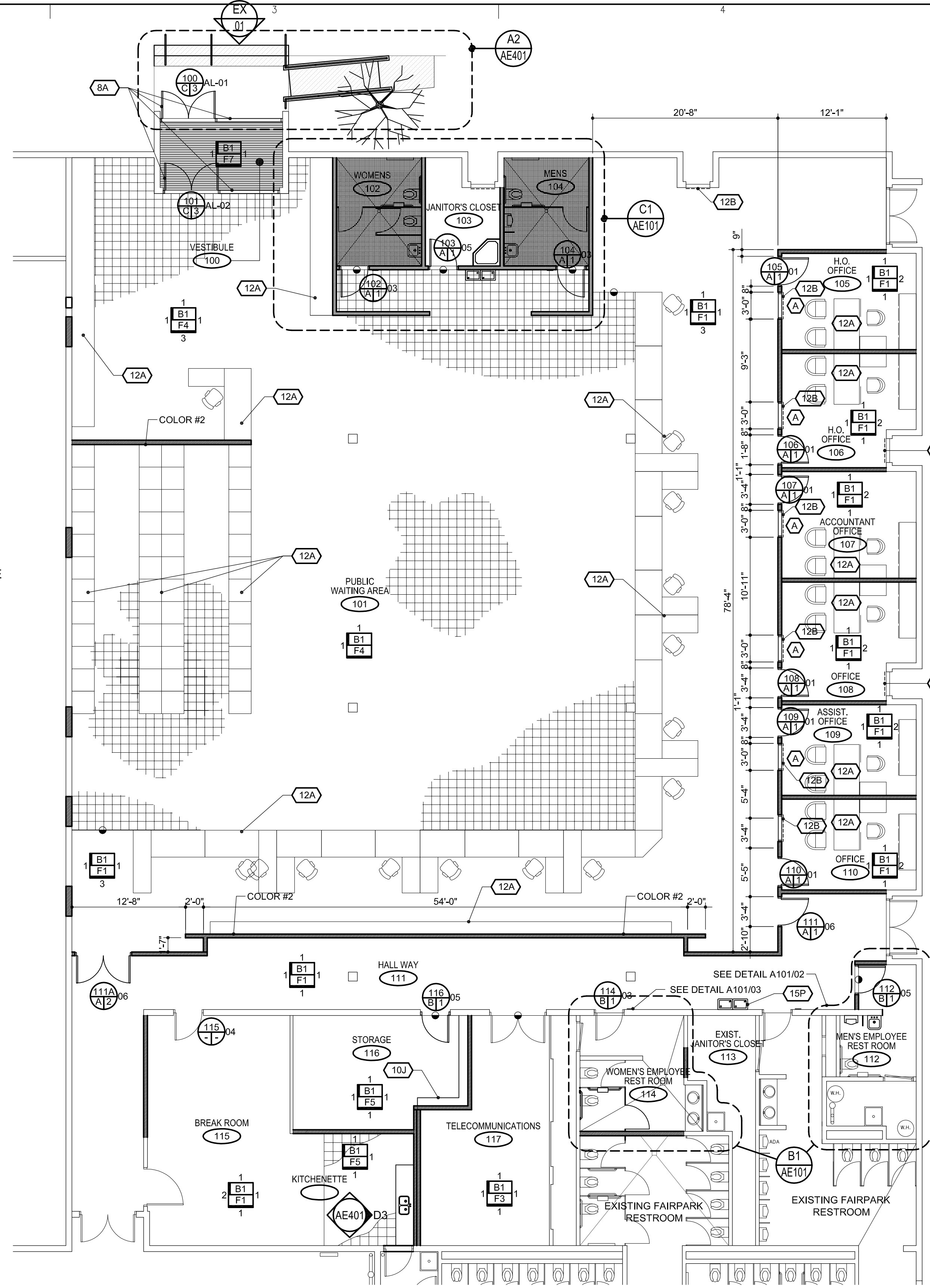
**B1 ENLARGED EMPLOYEE REST. PLAN**  
SCALE: 1/4"=1'-0"

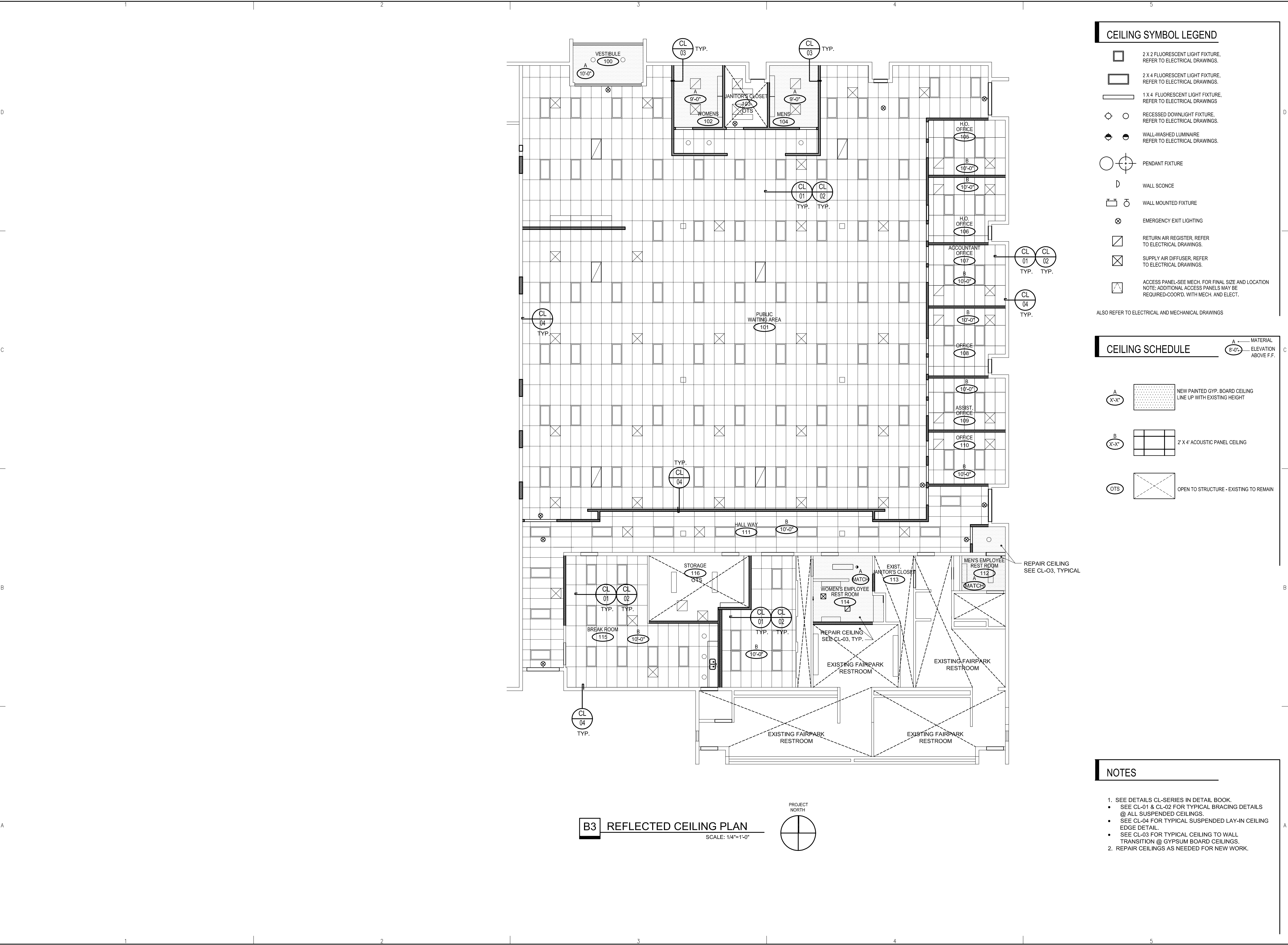


**A5 PARKING STRIPING PLAN**  
SCALE: 1/16"=1'-0"



SEE ALUM. STOREFRONT ON AE401





CEILING SYMBOL LEGEND

- 2 X 2 FLUORESCENT LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.
- 2 X 4 FLUORESCENT LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.
- 1 X 4 FLUORESCENT LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.
- RECESSED DOWNLIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.
- WALL-WASHED LUMINAIRE REFER TO ELECTRICAL DRAWINGS.
- PENDANT FIXTURE
- WALL SCONCE
- WALL MOUNTED FIXTURE
- EMERGENCY EXIT LIGHTING
- RETURN AIR REGISTER, REFER TO ELECTRICAL DRAWINGS.
- SUPPLY AIR DIFFUSER, REFER TO ELECTRICAL DRAWINGS.
- ACCESS PANEL-SEE MECH. FOR FINAL SIZE AND LOCATION NOTE: ADDITIONAL ACCESS PANELS MAY BE REQUIRED-COORD. WITH MECH. AND ELECT.

CEILING SCHEDULE

- |      | A     | MATERIAL  |
|------|-------|---|
| X-X' | 8'-0" | NEW PAINTED GYP. BOARD CEILING LINE UP WITH EXISTING HEIGHT |
| B    | X-X'  | 2' X 4' ACOUSTIC PANEL CEILING                              |
| OTS  |       | OPEN TO STRUCTURE - EXISTING TO REMAIN                      |

NOTES

- SEE DETAILS CL-SERIES IN DETAIL BOOK.
- SEE CL-01 & CL-02 FOR TYPICAL BRACING DETAILS @ ALL SUSPENDED CEILINGS.
- SEE CL-04 FOR TYPICAL SUSPENDED LAY-IN CEILING EDGE DETAIL.
- SEE CL-03 FOR TYPICAL CEILING TO WALL TRANSITION @ GYPSUM BOARD CEILINGS.
- REPAIR CEILINGS AS NEEDED FOR NEW WORK.

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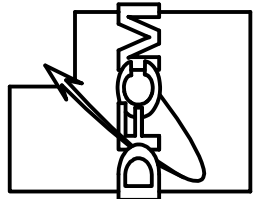
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REFLECTED CEILING PLAN

AE111







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SYMBOL LEGEND		
SYMBOL		DESCRIPTION
DUCTWORK		
SINGLE LINE	DOUBLE LINE	DESCRIPTION
		RECTANGULAR SUPPLY DUCT UP
		RECTANGULAR SUPPLY DUCT DOWN
		RECTANGULAR RETURN DUCT UP
		RECTANGULAR RETURN DUCT DOWN
		RECTANGULAR EXHAUST DUCT UP
		RECTANGULAR EXHAUST DUCT DOWN
		ROUND DUCT UP
		ROUND DUCT DOWN
		ACCOUSTICALLY LINED RECTANGULAR DUCT
		90° RECTANGULAR ELBOW WITH TURNING VANES
		90° RADIUS ELBOW R=1.5
		DUCT SIZE OR SHAPE TRANSITION
		OPPOSED BLADE BALANCING DAMPER (O.B.D.) IN RECT DUCT
		BUTTERFLY BALANCING DAMPER IN ROUND DUCTS
		COMBINATION TEE
		SQUARE OR RECTANGULAR CEILING DIFFUSER
		ROUND CEILING DIFFUSER
		SIDEWALL REGISTER SUPPLY OR RETURN
		ROUND FLEXIBLE DUCT
		RETURN GRILLE
		EXHAUST GRILLE
		FIRE/SMOKE DAMPER
		FIRE DAMPER
		SMOKE DAMPER
		FLEXIBLE CONNECTION
		EXISTING DUCT
		DUCT TO BE REMOVED

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
VALVES, METERS, AND GAUGES	
	SHUT OFF VALVE
	GATE VALVE
	CHECK VALVE
	GLOBE VALVE
	BALL VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	VENTURI
	BALANCING OR PLUG COCK
	EXPANSION VALVE (REFRIG.)
	STRAINER
	GAUGE COCK
	FLEXIBLE CONNECTION
	PRESSURE GAUGE
	THERMOMETER
	REDUCER CONCENTRIC
	REDUCER ECCENTRIC
	REFRIGERANT SITE GLASS
	REFRIGERANT STAINER
	REFRIGERANT FILTER DRIER
	90° ELBOW UP
	90° ELBOW DOWN
	90° TEE UP
	90° TEE DOWN
	UNION
	CAPPED PIPE
	FLOAT AND THERMOSTATIC TRAP
PLUMBING SYMBOLS	
	M.H. MANHOLE
	W.H. WALL HYDRANT
	H.B. HOSE BIBB
	CLEANOUT TO GRADE
	FLOOR CLEANOUT
	WALL CLEANOUT

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS TO MAKE THE ITEM FULLY OPERATIONAL."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
HVAC PIPING	
	TEMPERED WATER SUPPLY
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	DRAIN LINE
	HOT GAS BYPASS
	EXISTING PIPE
	EXISTING PIPE TO BE REMOVED
PLUMBING PIPING	
	COMBINATION WASTE AND VENT
	SOIL, WASTE - ABOVE GRADE
	SOIL, WASTE - BELOW GRADE
	VENT
	COLD WATER
	HOT WATER
	HOT WATER CIRCULATE
	VENT THRU ROOF
	EXISTING PIPE
	EXISTING PIPE TO BE REMOVED
	SANITARY SEWER
	WATER
	GAS
HVAC SYMBOLS	
	THERMOSTAT
	TEMPERATURE SENSOR
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	PLUMBING FIXTURE INDICATOR.
	DIFFUSER/GRILLE INDICATOR.
	DIFFUSER/GRILLE INDICATOR.
	BREAK, STRAIGHT
	BREAK, ROUND.
	MATCH LINE SEE XX/X-XXX
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
	NEW CONNECTION POINT TO EXISTING

SHEET INDEX	
SHEET NO	SHEET TITLE
ME001	GENERAL NOTES, SYMBOLS & SHEET INDEX
ME501	MECHANICAL DETAILS AND SCHEDULES
MD101	MECHANICAL DEMOLITION FLOOR PLAN
MH101	MECHANICAL FLOOR PLAN
PE501	PLUMBING DETAILS AND SCHEDULES
PD101	PLUMBING DEMOLITION FLOOR PLAN
PL101	PLUMBING FLOOR PLAN & ENLARGED PLUMBING PLANS

GENERAL NOTES (CONT.)	
27.	DO NOT USE STEEL ROOF DECK TO SUPPORT LOADS FROM PIPING, DUCTWORK OR EQUIPMENT. HANGER LOADS LESS THAN 50 LBS. MAY BE HUNG FROM THE STEEL ROOF DECK IN CASES WHERE HANGING FROM THE STEEL ROOF DECK CANNOT BE AVOIDED. THE ATTACHMENT METHOD MUST DISTRIBUTE THE LOAD ACROSS THE DECK AS APPROVED BY THE STRUCTURAL ENGINEER.
28.	PROPERLY LUBRICATE ALL PIECES OF EQUIPMENT BEFORE TURNING THE SYSTEM OVER TO THE OWNER.
29.	PREPARE 6 COPIES OF SUBMITTALS IN AN INDEXED, LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL EQUIPMENT, PIPING, COMPONENTS AND ACCESSORIES TO BE USED. SUBMITTALS WILL BE CHECKED AT MOST TWICE. TIME SPENT ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT HOURLY RATES.
30.	TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT, ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT.
31.	UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THE DIVISION 15 CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN, ORDERLY CONDITION.
32.	THE DIVISION 15 CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER, TO PROVE ITS OPERATION. ALL FILTERS USED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO THE TEST RUN PERIOD.
33.	THE DIVISION 15 CONTRACTOR SHALL GUARANTEE THE HVAC SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
34.	THE DIVISION 15 CONTRACTOR SHALL, DURING CONSTRUCTION, MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THESE REDLINES SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION.
35.	EXACT ROUTING OF WASTE, GAS, AND WATER SERVICE IS DEPENDENT ON LOCAL SITE CONDITIONS AND MODIFICATIONS IN EQUIPMENT CONNECTIONS. EXACT LOCATION OF EQUIPMENT MAY VARY DEPENDING ON LOCAL CODE, HEALTH DEPARTMENT AND CITY REQUIREMENTS.
36.	PROVIDE WALL CLEANOUTS IN ALL VENTS FOR COMBINATION WASTE AND VENT SYSTEMS AS REQUIRED BY LOCAL AND NATIONAL CODES.
37.	ALL VENT FITTINGS FOR WASTE SYSTEMS BELOW OVERFLOWS OF FIXTURES SHALL BE DRAINAGE TYPE.
38.	CONTRACTOR TO COMPLY WITH THE LATEST ADOPTED PLUMBING CODES WHEN SIZING TRAP ARMS ON COMBINATION WASTE AND VENT SYSTEMS. THE DRAWINGS INDICATE THE WASTE LINE SIZE AND THE SIZE OF THE TRAP REQUIRED.
39.	PROVIDE CLEANOUTS IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE CODES. FLOOR CLEANOUTS SHALL BE LOCATED OUT OF TRAFFIC AREAS.
40.	LOCATE ALL PLUMBING VENTS AT LEAST 3 FEET ABOVE OR 10 FEET AWAY FROM ALL OUTSIDE AIR INTAKES INTO THE BUILDING. FOR HEALTHCARE APPLICATION, VENTS SHALL BE 25 FT AWAY FROM AIR INTAKES.
41.	SEE "PLUMBING FIXTURE SCHEDULE" FOR FIXTURE MAKE AND TYPE, AND SIZE OF INDIVIDUAL WASTE, VENT, AND DOMESTIC WATER PIPING TO FIXTURES.
42.	ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
43.	EQUIPMENT AND INSTALLATION SHALL MEET NATIONAL SANITATION FOUNDATION (NSF) STANDARDS, OR EQUIVALENT.
44.	PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING.
45.	ALL PIPE SHALL BE SECURED BY DOUBLE NUTTING AT THE HANGER ROD ATTACHMENT TO THE STRUCTURE, AND AT THE PIPE HANGER.
46.	PROVIDE WATER HAMMER ARRESTORS (SHOCK ABSORBERS) AT ALL PIPE LOCATIONS WHERE VALVE CLOSURES (SUCH AS FLUSH VALVES) MAY CAUSE WATER HAMMER OR RESULT IN EXCESSIVE PIPE VIBRATION OR MOVEMENT.
47.	ALL CEILING DIFFUSERS SHOWN AS SUCH ARE CD-1, CFM AS NOTED, UNLESS OTHERWISE NOTED. REFER TO DETAIL A2/ME501.
48.	ALL CEILING RETURN GRILLES SHOWN AS SUCH ARE RG-1 UNLESS OTHERWISE NOTED.
49.	ALL CEILING EXHAUST GRILLES SHOWN AS SUCH ARE EG-1, CFM AS NOTED, UNLESS OTHERWISE NOTED.
50.	DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
51.	COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
52.	ALL DUCT DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS. ADJUST SHEET METAL DIMENSION FOR LINED DUCT.
53.	IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
54.	PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
55.	THE EQUIPMENT INSTALLER IS TO APPLY AND SIGN A CERTIFICATION LABEL TO EACH GAS-FIRED APPLIANCE, STATING THE APPLIANCE HAS BEEN ADJUSTED OR MODIFIED PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AT THE PROJECT ALTITUDE AND WITH THE BTU-CONTENT OF THE AVAILABLE FUEL-GAS.

GENERAL NOTES	
1.	PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL HVAC AND PLUMBING SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.
2.	THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, SCHOOL, DISTRICT, STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER HAS.
3.	PRIOR TO FABRICATION AND INSTALLATION, COORDINATE THE INSTALLATION OF ALL HVAC PIPING, DUCTWORK, AND EQUIPMENT WITH PLUMBING PIPING, PLUMBING EQUIPMENT, REFRIGERATION TRENCHES AND PIPING, FIRE PROTECTION PIPING AND ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO: THE MECHANICAL CONTRACTOR, REFRIGERATION CONTRACTOR, ELECTRICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, GENERAL CONTRACTOR, AND ANY CONTRACTOR HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
4.	THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING ENGINEER.
5.	ALL HVAC AND PLUMBING INFORMATION IS NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND REFRIGERATION DRAWINGS.
6.	THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR HVAC EQUIPMENT AND PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ELECTRICAL DRAWINGS.
7.	SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED AND/OR INSTALLED. ANY CONFLICTS AND/OR CHANGES FOUND DURING INSTALLATION THAT RESULT FROM LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8.	1/8" SCALE SHOP DRAWINGS (SUBMITTED FOR APPROVAL) ARE REQUIRED FOR ALL DUCTWORK AND PIPING SYSTEMS.
9.	THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
10.	DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE APPROPRIATE ALL OF THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE RESPONSIBILITY OF THE CONTRACTOR.
11.	PIPING SCHEMATICS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE PIPING SCHEMATICS INCLUDED WITH THE DRAWINGS FOR PIPING CONNECTIONS TO ALL MECHANICAL EQUIPMENT. THE PIPING SCHEMATICS SHOW DETAILED CONNECTIONS INCLUDING NECESSARY VALVES, FITTINGS, PRESSURE AND TEMPERATURE GAUGES, ETC., THAT ARE NOT SHOWN ON THE PIPING PLANS. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED PIPING SCHEMATICS IS THE RESPONSIBILITY OF THE CONTRACTOR.
12.	THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
13.	ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14.	COORDINATE THE RETURN OF ALL MECHANICAL AND PLUMBING EQUIPMENT REMOVED DURING DEMOLITION WITH THE OWNER'S REPRESENTATIVE.
15.	ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE SITE ALTITUDE.
16.	EQUIPMENT MODEL NUMBERS IN SCHEDULES ARE SHOWN TO ESTABLISH THE TYPE OF PRODUCT THAT HAS TO BE USED. THE SELECTED PRODUCT MUST MEET THE SCHEDULED PERFORMANCE DATA. THIS MAY REQUIRE A DIFFERENT MODEL NUMBER TO THAT SCHEDULED.
17.	ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, DAMPERS, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
18.	THE DIVISION 15 CONTRACTOR SHALL FURNISH ALL REQUIRED MOTORS. ALL MOTOR STARTING EQUIPMENT, WHEN NOT A PART OF THE EQUIPMENT, WILL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
19.	EXISTING INTERIOR PIPING, EQUIPMENT, AND DUCTWORK HAS BEEN LOCATED IN APPROXIMATELY ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND POINTS OF CONNECTION AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S REPRESENTATIVE.
20.	THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT CHECK-IN, SAFEKEEPING, AND DAMAGE.
21.	DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCT AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.
22.	COORDINATE EXACT LOCATIONS OF CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
23.	ALL FIRE DAMPERS SHOWN ARE 1-1/2 HOUR UNLESS OTHERWISE NOTED.
24.	IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
25.	PROVIDE CEILING ACCESS PANELS AS REQUIRED WHERE MECHANICAL EQUIPMENT, VALVES, VAV BOXES, FIRE DAMPERS, ETC. ARE LOCATED ABOVE INACCESSIBLE CEILINGS.
26.	ENCLOSE ALL DUCT AND FLUE PENETRATIONS THROUGH 1 HOUR ROOF ASSEMBLIES WITH 2 SHEET ROCK LAYERS FROM SHEET ROCK CEILING AT BOTTOM OF ROOF TRUSSES TO ROOF DECK.

Revision # Date

Axis Job # 0518

Owner # DFCM # 07009370

Date 7-10-07

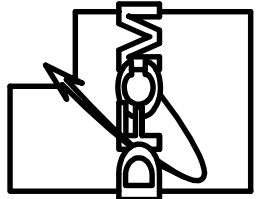
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Checked JJJ

MECHANICAL NOTES,  
SYMBOLS & SHEET INDEX

ME001

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## ROOFTOP UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	NOMINAL TONS COOLING	TOTAL CFM	MIN O.A. CFM	ESP (IN WG)	COOLING			HEATING			ELECTRICAL				SIZE (IN)				OPERATING WEIGHT (LBS)	COMMENTS
								TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EDB (F)	EWB (F)	O.A. (F)	INPUT (MBH)	OUTPUT (1) (MBH)	VOLT	PHASE	HZ.	MCA	L	W	H		
RTU-1	CARRIER	48PGDC04	EAST EXTERIOR	3	1490	190	0.75	34.90	26.87	78.6	63.8	96	90.8	61	208	3	60	25	90.0	53.9	44.5	786	(2) (3) (4) (7) (8)
RTU-2	CARRIER	48PGDC05	NORTH EXTERIOR	4	1820	610	0.75	45.13	40.51	82.3	63.4	96	151.8	102	208	3	60	29	90.0	53.9	44.5	901	(2) (3) (4) (7) (8)
RTU-3	CARRIER	48PGDC14	WAITING	12.5	5000	1400	1.00	144.35	121.13	81.6	63.5	96	206.8	139	208	3	60	69	102.6	63.2	52.1	1400	(2) (3) (4) (5) (6) (7) (8)

- (1) MBH OUTPUT AT 4300 FT ELEVATION  
(2) 100% OUTSIDE AIR ECONOMIZER AND 100% CENTRIFUGAL POWER EXHAUST  
(3) PROVIDE WITH FACTORY STANDARD ROOF CURB  
(4) PROVIDE WITH FACTORY INSTALLED FUSED DISCONNECT SWITCH  
(5) PROVIDE WITH DUCT MOUNTED SMOKE DETECTORS (120V) & CONTROL RELAY FOR FAN SHUTDOWN.  
(6) RTU-3 TO BE BID AS AN ALTERNATE  
(7) ROOFTOP UNIT MUST MEET ROCKY MOUNTAIN POWER FINANSWER EXPRESS REQUIREMENTS  
(8) CONNECT TO EXISTING GAS SUPPLY.

## EXHAUST FAN SCHEDULE

SYM	MANUFACTURER	MODEL NO.	CFM	STATIC PRESSURE IN WG.	WATTS OR H.P.	RPM	VOLTS/ PHASE/ CYCLE	AREA SERVED	CONTROL METHOD	COMMENTS
EF-1	LOREN-COOK	100 ACEB	610	0.38	0.167	1458	120/1/60	NEW RESTROOMS	A	( 1 ) ( 2 )

- ( 1 ) ALL CAPACITIES AT 4500 FT. ELEVATION.  
( 2 ) ROOF MOUNTED EXHAUST FAN. COMPLETE WITH PRE-FAB CURB, MOTORIZED BACKDRAFT DAMPER  
BIRD SCREEN, INTEGRAL THERMAL OVERLOAD PROTECTION AND SERVICE DISCONNECT.  
( A ) CONTROL: ATC.

## CONDENSING UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	BTU * CAPACITY	REFRIGERANT TYPE	VOLTS/PHASE/CYCLE	MCA	COMMENTS
CU-1	DAIKIN	FX25A	22,000	R410A	208/1/60	17	(1)

- (1) INSTALL ACCORDING TO MANUFACTURER INSTRUCTIONS.

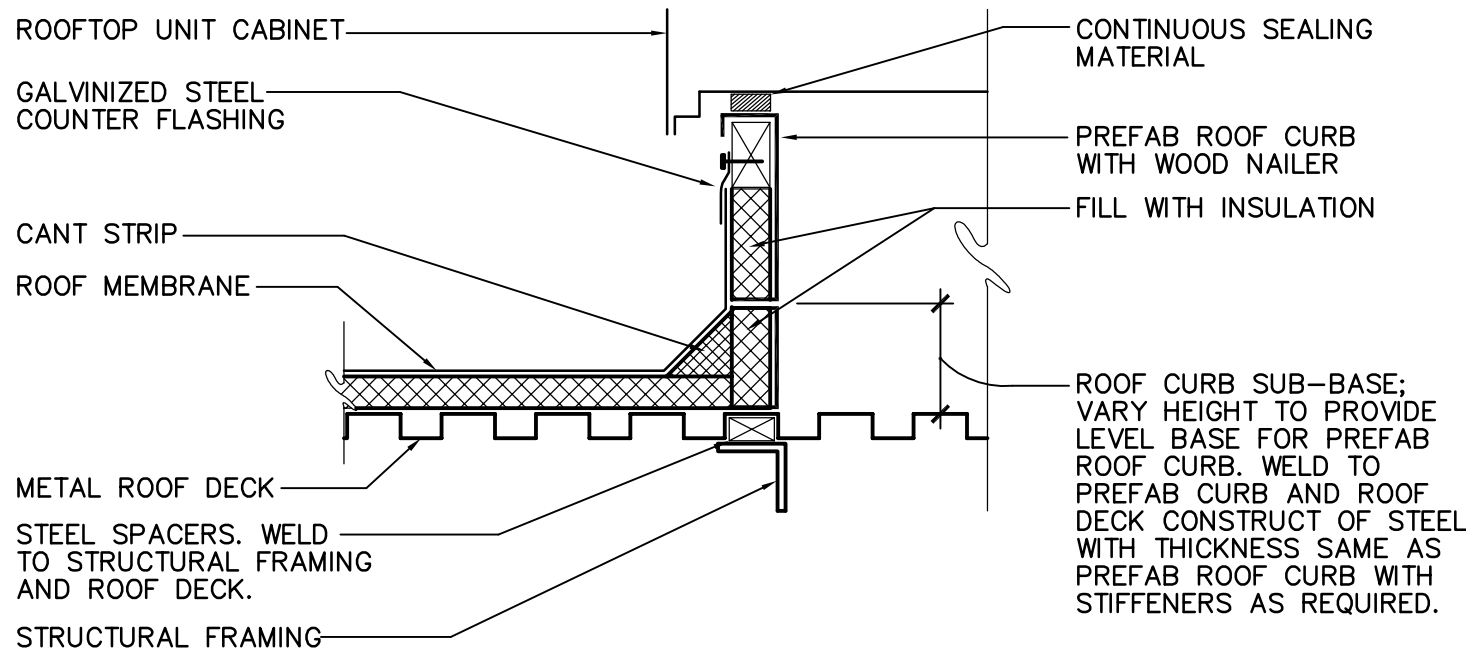
## SPLIT SYSTEM DUCTLESS AIR CONDITIONER

SYMBOL	MANUFACTURER & MODEL NO.	LOCATION	COOLING CAPACITY (BTU/H)	ELECTRICAL VOLTS/PHASE/CYCLE	MIN. AMP	COMMENTS
HP-1	DAIKIN MSY-A24NA	ELECTRICAL ROOM	22,000	208/1/60	1.0	(1) (2) (3) (4) (5)

- (1) CONDITIONS - 80 DEG F DB 62 DEG F WB EAT, 96 DEG F DB 65 DEG F WB AMBIENT  
(2) PROVIDE REMOTE PROGRAMMABLE THERMOSTAT & LOW AMBIENT KIT.  
(3) INSTALL ACCORDING TO MANUFACTURER INSTRUCTIONS.  
(4) PROVIDE WITH CONDENSATE PUMP OPTION.  
(5) DESIGN BASIS: NOMINAL 2 TONS COOLING.

## GRILLES, REGISTERS AND DIFFUSERS

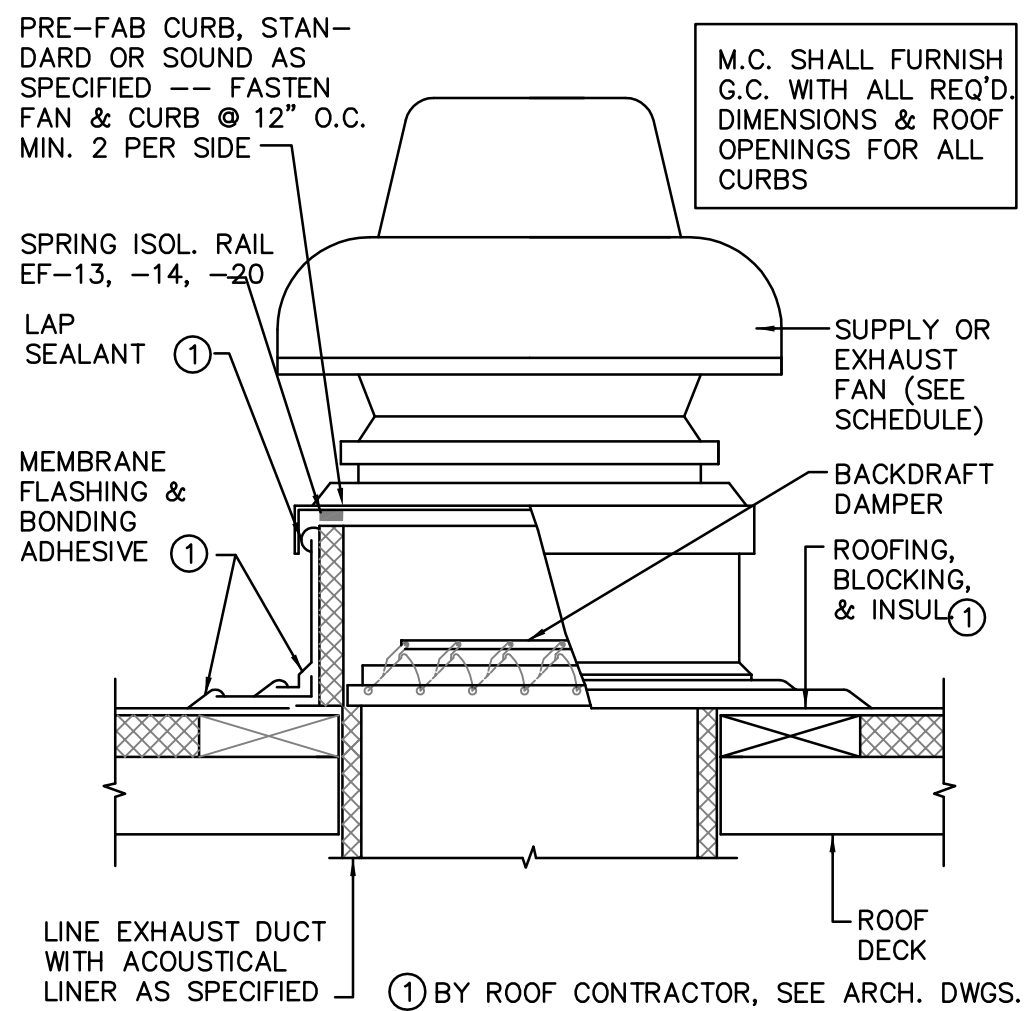
SYM	MANUF	MODEL	SIZE	MAX CFM	MAX NC	DESCRIPTION
CD-1	EH PRICE	SCDA	6 x 6 9 x 9 12 x 12 15 x 15 18 x 18	125 250 425 625 900	30	LOUVER FACE (4-CONE) CEILING DIFFUSERS. ADJUSTABLE AIR PATTERN, C.W./O.B.D. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. PROVIDE ROUND NECK ADAPTER.
RG-1	EH PRICE	PDDR	10 x 10 12 x 12 14 x 14 15 x 15	350 500 680 780	20	PERFORATED FACE EXHAUST AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12", 48" x 24" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE.
EG-1	EH PRICE	PDDR	10 x 10 12 x 12 14 x 14 15 x 15 48 x 24	350 500 680 780 1200	20	PERFORATED FACE EXHAUST AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE.



NOTE: ANCHOR ROOFTOP UNIT TO PREFAB ROOF CURB PER SEISMIC RESTRAINT REQUIREMENTS.

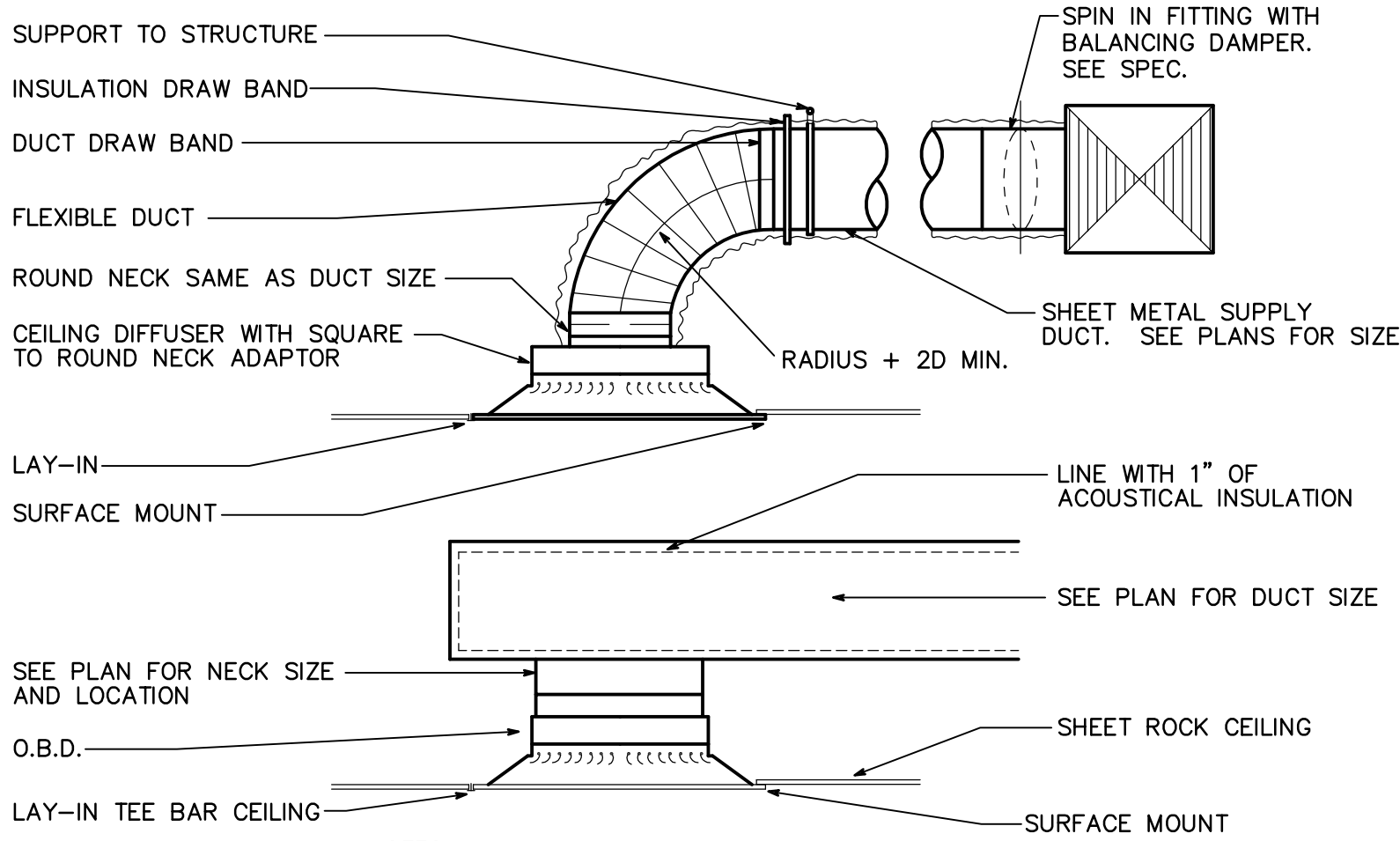
## B2 ROOFTOP UNIT CURB DETAIL

SCALE: NOT TO SCALE



## A1 ROOF FAN

NOT TO SCALE



- NOTES:  
1. EXHAUST AND RETURN GRILLES ARE SIMILAR.  
2. EITHER METHOD IS ACCEPTABLE

## A2 CEILING DIFFUSER DETAIL

SCALE: NOT TO SCALE



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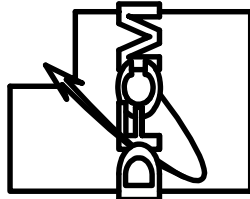
Revision # Date

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Axis Job # 0518  
Owner # DFCM# 07009370  
Date 7-10-07  
Drawn ARA  
Checked JJJ

MECHANICAL DETAILS  
AND SCHEDULES

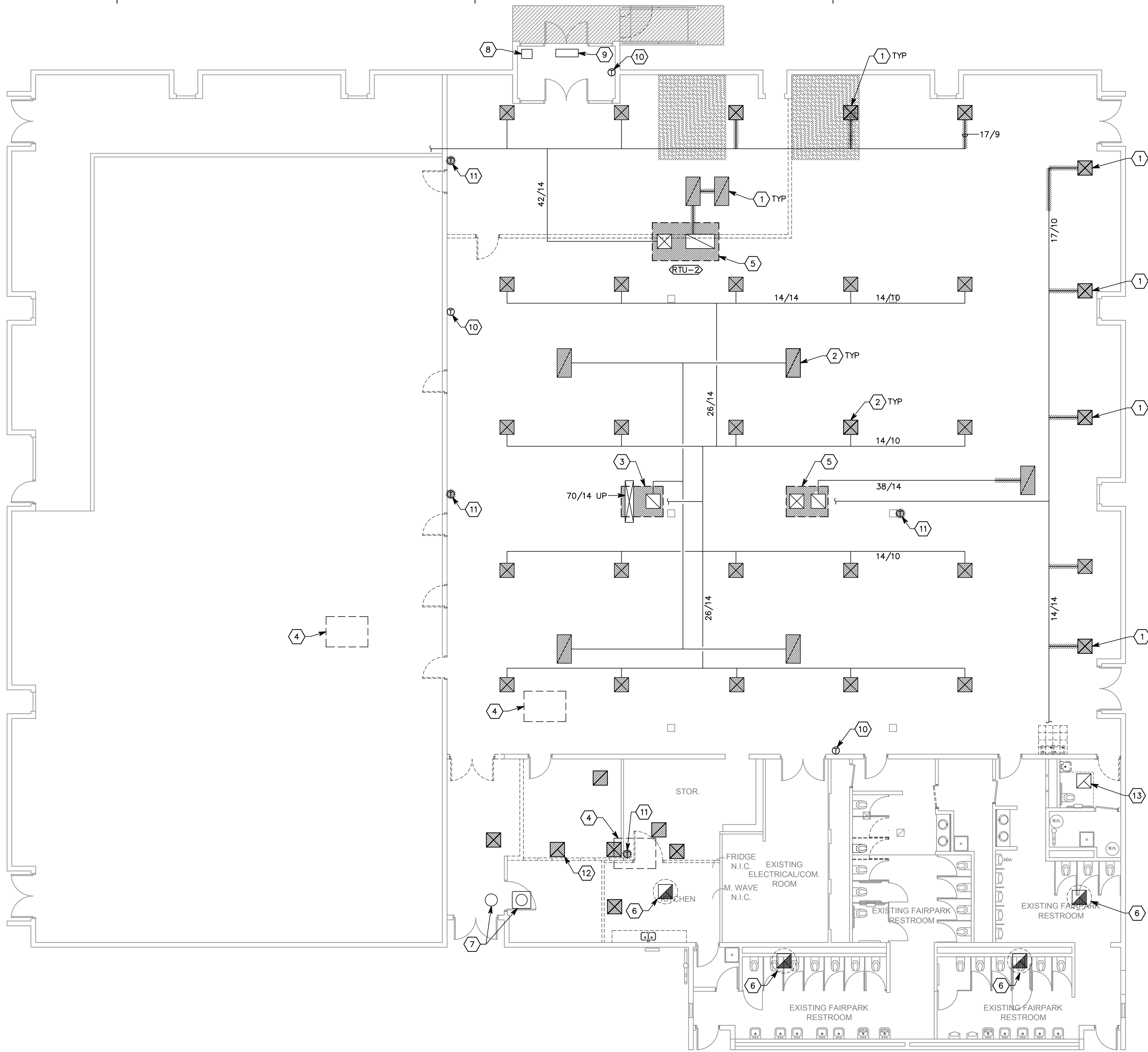
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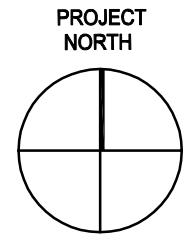
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**A3 MECHANICAL DEMOLITION FLOOR PLAN**

SCALE: 1/8"=1'-0"



**SHEET KEYNOTES**

1. REMOVE EXISTING DIFFUSER AND BRANCH DUCT BACK TO ACTIVE MAIN AND CAP.
2. REMOVE ALL EXISTING DIFFUSERS AND CAP DUCT.
3. PROVIDE ALTERNATE BID TO REMOVE EXISTING ROOFTOP UNIT.
4. EXISTING ROOFTOP UNIT TO REMAIN.
5. REMOVE EXISTING ROOFTOP UNIT.
6. EXISTING EXHAUST FAN TO REMAIN.
7. EXISTING CONDENSING UNIT TO REMAIN.
8. EXISTING UNIT HEATER TO REMAIN.
9. EXISTING CABINET UNIT HEATER TO REMAIN.
10. EXISTING THERMOSTAT TO REMAIN.
11. REMOVE EXISTING THERMOSTAT.
12. REMOVE EXISTING EXHAUST GRILLE AND ASSOCIATED DUCT BACK TO ACTIVE MAINS AND CAP.
13. EXISTING EXHAUST GRILLE TO REMAIN.



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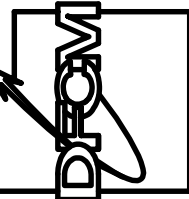
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Owner # DFCM # 07009370  
Date 7-10-07  
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MECHANICAL  
DEMOLITION FLOOR PLAN

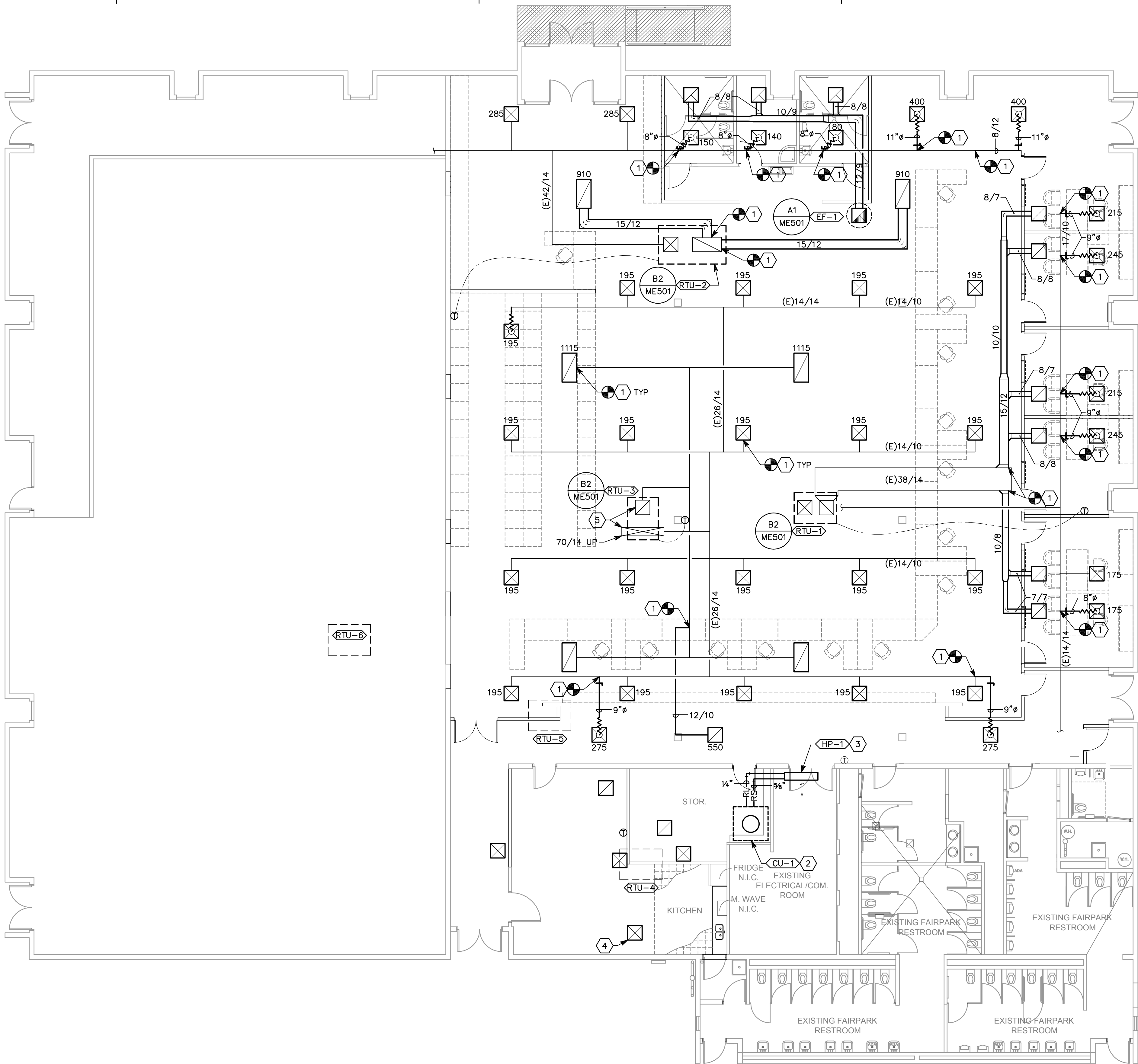


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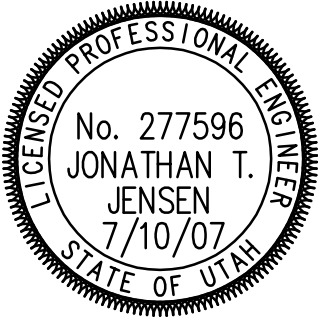


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## SHEET KEYNOTES

1. CONNECT TO EXISTING DUCT.
2. LOCATE CONDENSING UNIT ON ROOF.
3. LOCATE DUCTLESS COOLING UNIT ABOVE DOOR. PIPE CONDENSATE TO MOP SINK.
4. PROVIDE NEW DIFFUSERS AND GRILLES CONNECTED TO DUCT AT PREVIOUS LOCATIONS. PROVIDE ADJUSTMENT AS NECESSARY TO MATCH CEILING GRID.
5. PATCH EXISTING ROOF PENETRATIONS.



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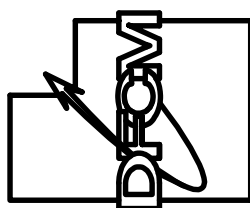
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Owner #	DFCM # 07009370
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Drawn	ARA
Checked	JTU

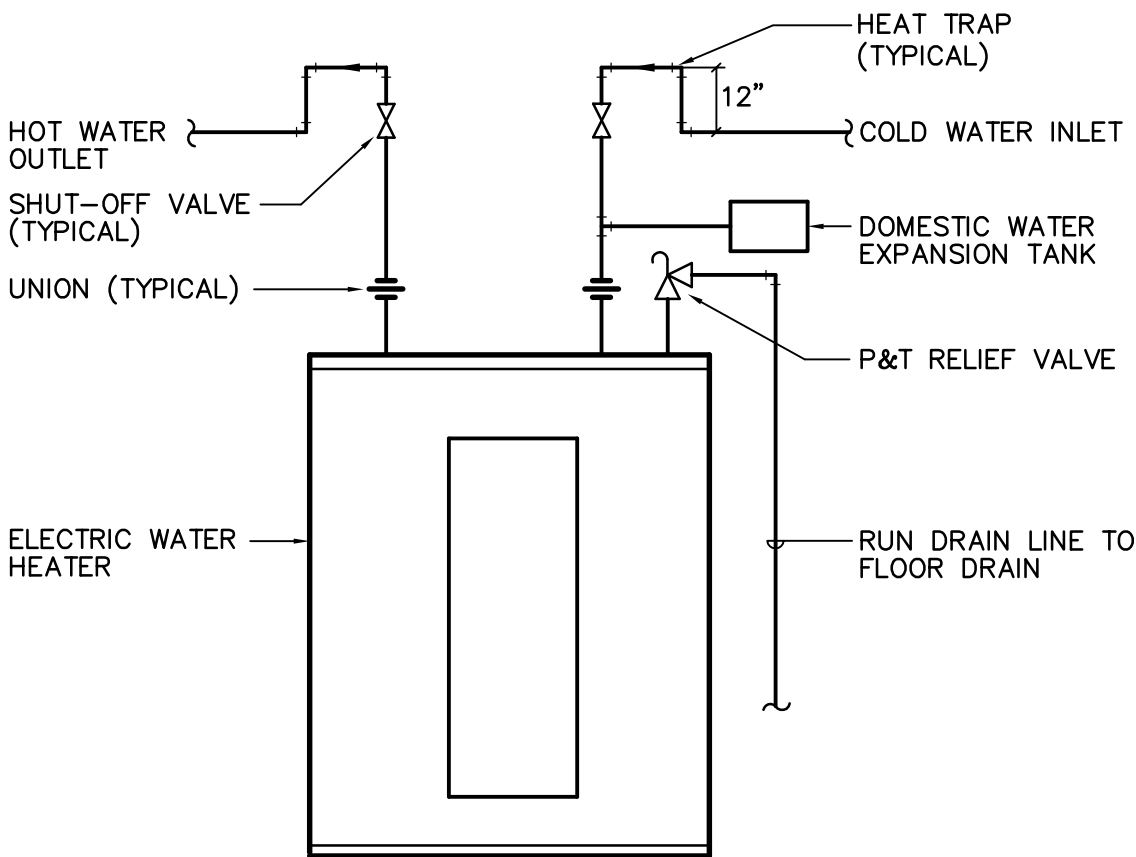
MECHANICAL  
FLOOR PLAN

# MH101

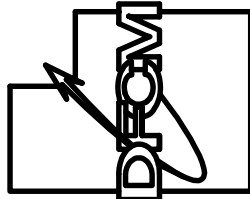


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**(A5) WATER HEATER DETAIL**  
SCALE: NOT TO SCALE



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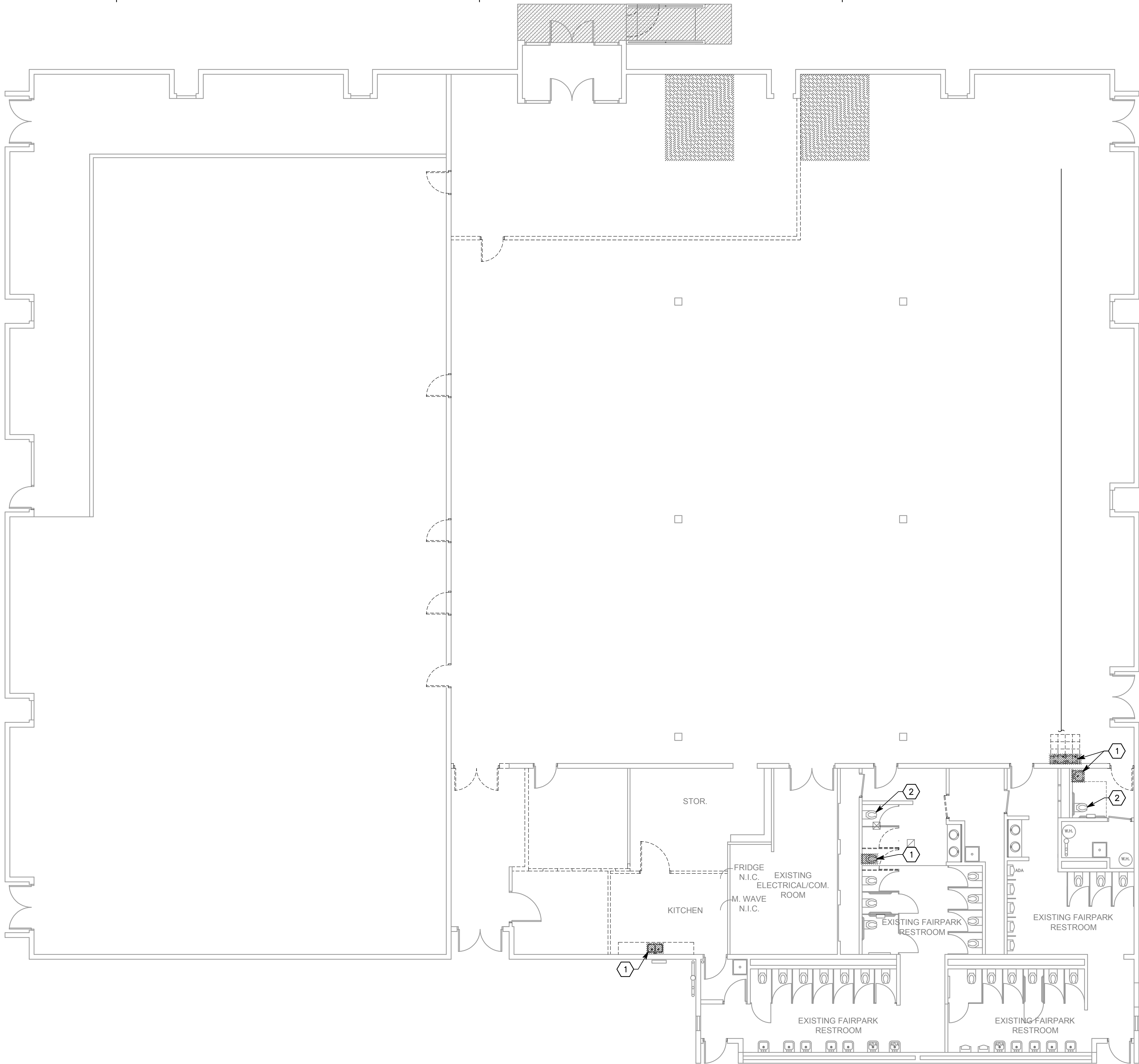
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Checked JTJ

## PLUMBING

### DETAILS AND SCHEDULE:

# PE501

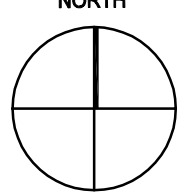
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**A3** PLUMBING DEMOLITION FLOOR PLAN

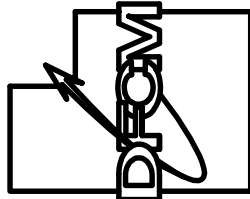
SCALE: 1/8"=1'-0"

PROJECT NORTH



SHEET KEYNOTES

1. REMOVE FIXTURE AND ASSOCIATED PLUMBING BACK TO ACTIVE MAIN AND CAP.
2. EXISTING FIXTURE TO REMAIN.



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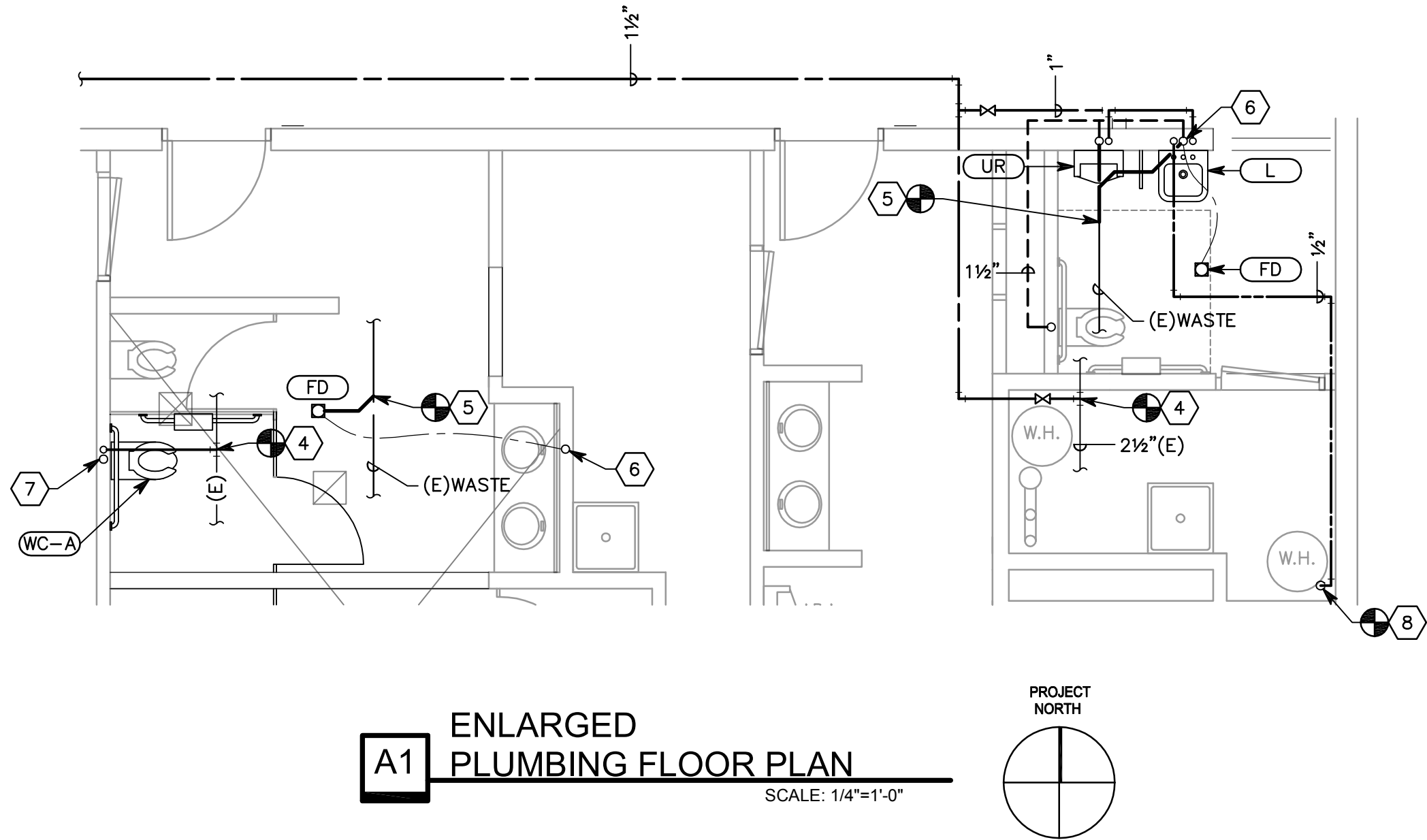
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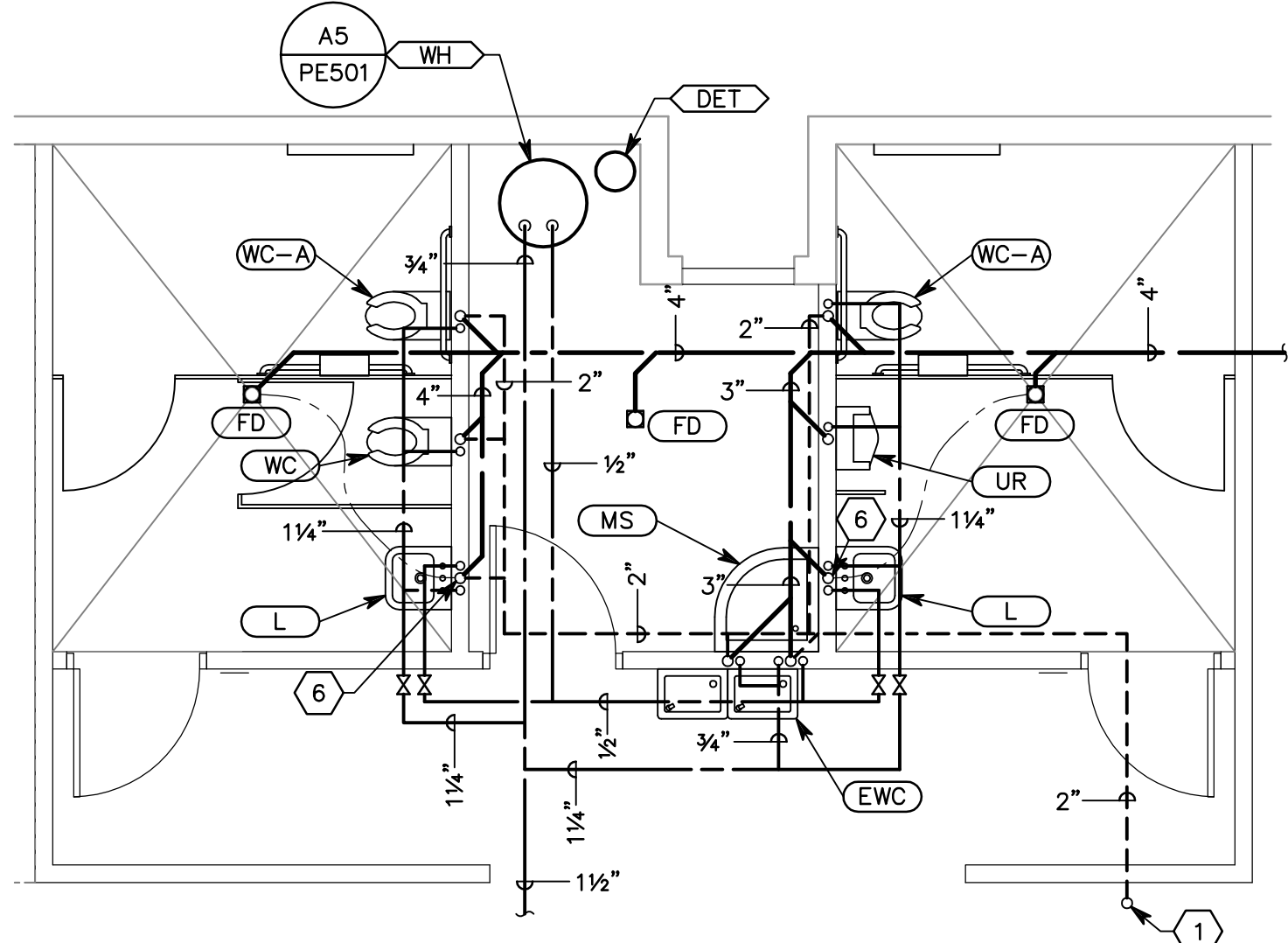
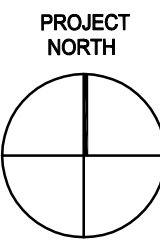
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PLUMBING  
DEMOLITION FLOOR PLAN

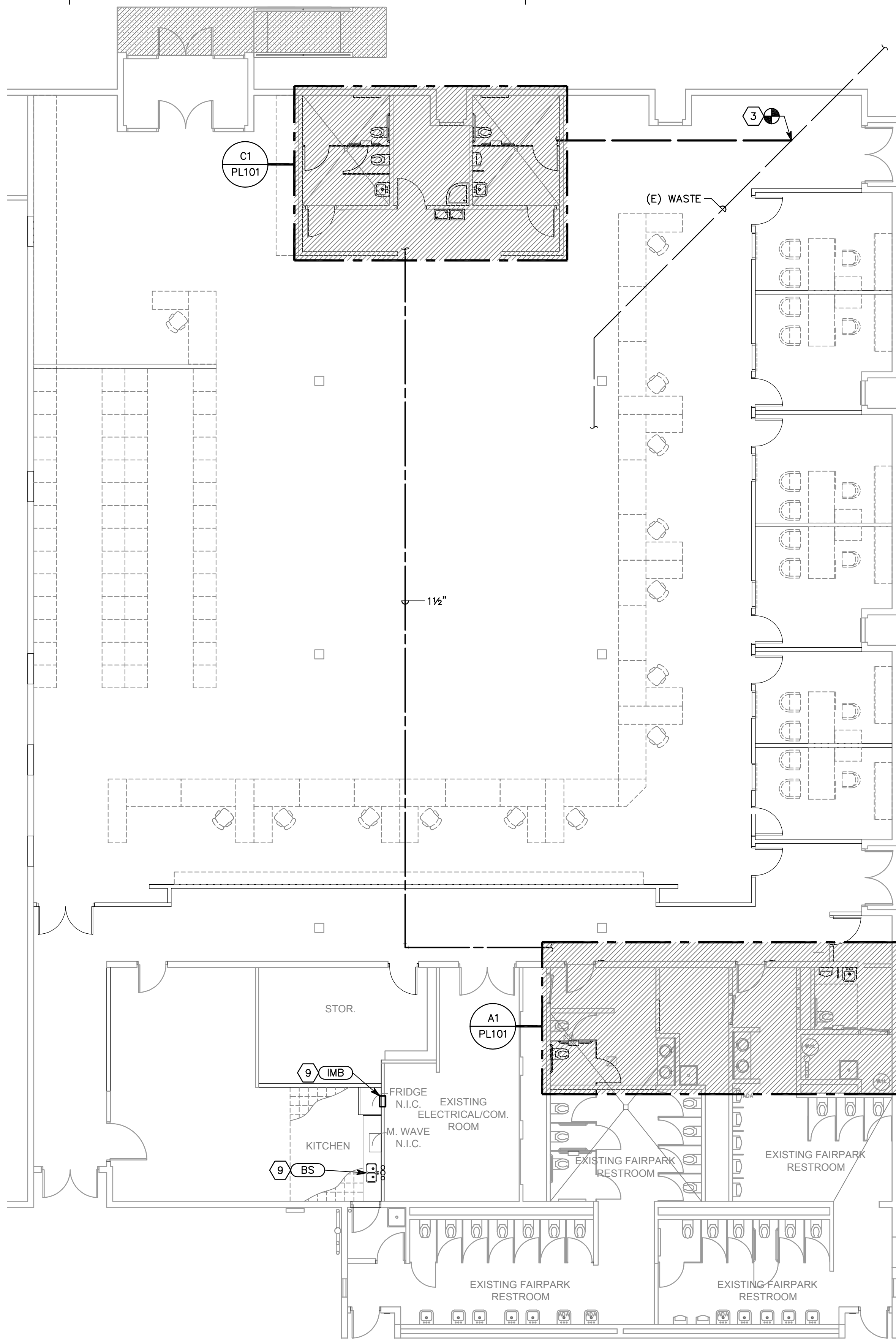
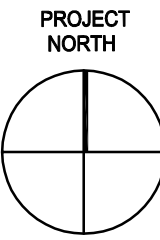
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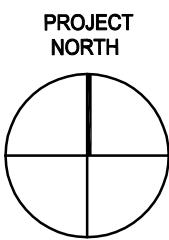
**A1** ENLARGED  
PLUMBING FLOOR PLAN  
SCALE: 1/4"=1'-0"



**C1** ENLARGED  
PLUMBING FLOOR PLAN  
SCALE: 1/4"=1'-0"



**A3** PLUMBING  
FLOOR PLAN  
SCALE: 1/8"=1'-0"



## SHEET KEYNOTES

1. 2" VTR.
2. CONNECT TO EXISTING COLD WATER.
3. CONNECT TO EXISTING WASTE. FIELD VERIFY EXACT LOCATION OF EXISTING WASTE PIPING. SAW CUT EXISTING FLOOR AS NECESSARY TO MAKE CONNECTION.
4. CONNECT TO EXISTING COLD WATER.
5. CONNECT TO EXISTING WASTE. SAW CUT EXISTING FLOOR AS NECESSARY TO MAKE CONNECTION.
6. PROVIDE AND INSTALL NEW JR. SMITH FIGURE 2698 TRAP PRIMER UNDER LAVATORY AND CONNECT TO FLOOR DRAIN.
7. CONNECT WASTE AND VENT FOR NEW WATER CLOSET TO EXISTING ADJACENT PLUMBING.
8. CONNECT TO EXISTING HOT WATER.
9. CONNECT PLUMBING TO ADJACENT MOP SINK.



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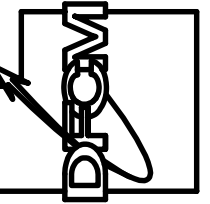
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Axis Job # 0518  
Owner # DFCM # 07009370  
Date 7-10-07  
Drawn ARA  
Checked JTJ

PLUMBING  
FLOOR PLAN

**PL101**



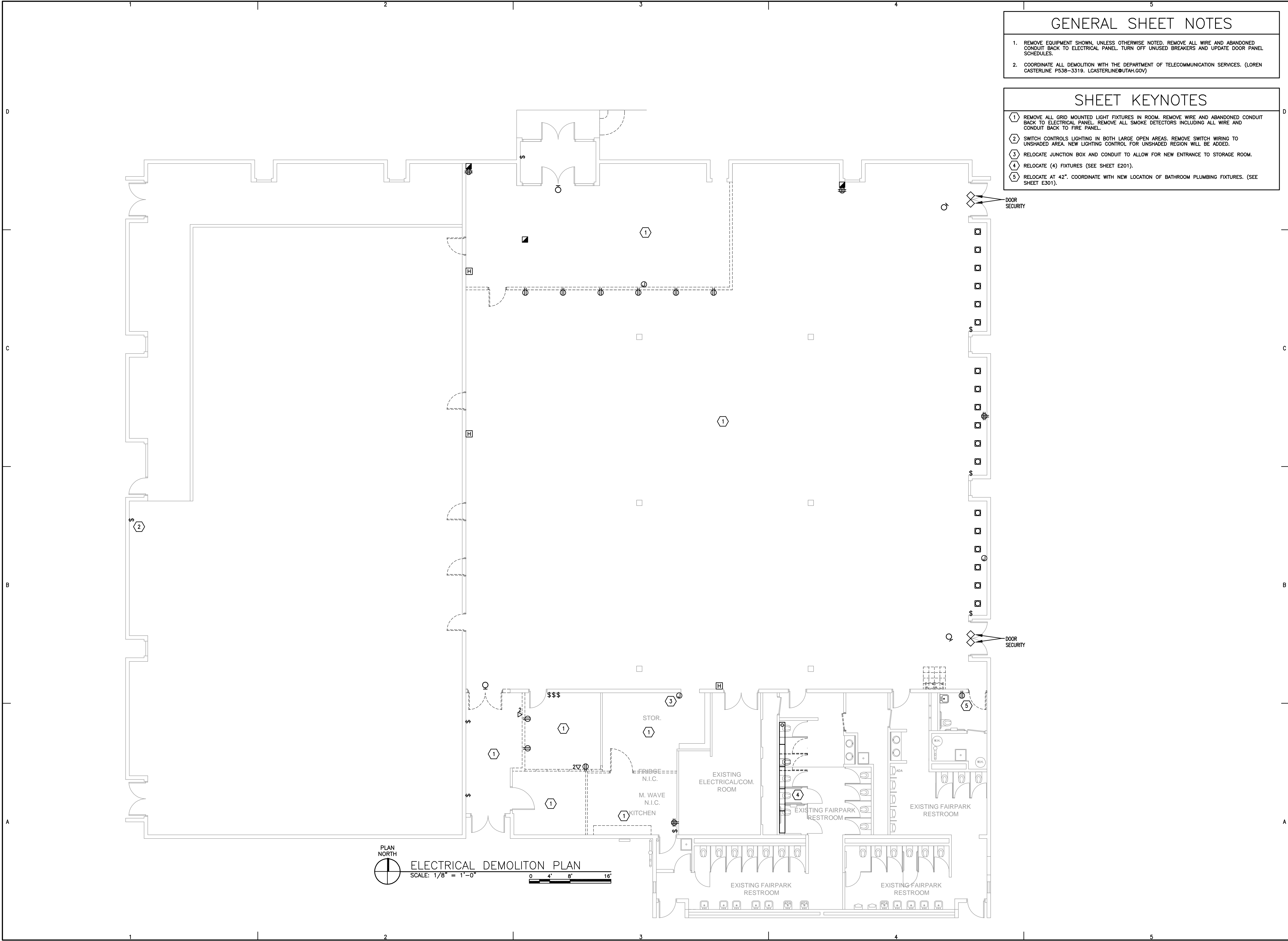
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610 " 1 " STREET SALT LAKE CITY UTAH 84103 P 355-3003 F 355-8578





By: paul; Jul 11, 2007 - 3:47pm  
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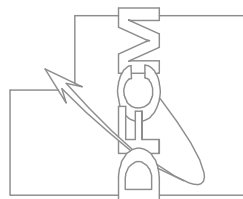


## GENERAL SHEET NOTES

1. REMOVE EQUIPMENT SHOWN, UNLESS OTHERWISE NOTED. REMOVE ALL WIRE AND ABANDONED CONDUIT BACK TO ELECTRICAL PANEL. TURN OFF UNUSED BREAKERS AND UPDATE DOOR PANEL SCHEDULES.
2. COORDINATE ALL DEMOLITION WITH THE DEPARTMENT OF TELECOMMUNICATION SERVICES. (LOREN CASTERLINE P538-3319. LCASTERLINE@UTAH.GOV)

## SHEET KEYNOTES

- 1 REMOVE ALL GRID MOUNTED LIGHT FIXTURES IN ROOM. REMOVE WIRE AND ABANDONED CONDUIT BACK TO ELECTRICAL PANEL. REMOVE ALL SMOKE DETECTORS INCLUDING ALL WIRE AND CONDUIT BACK TO FIRE PANEL.
- 2 SWITCH CONTROLS LIGHTING IN BOTH LARGE OPEN AREAS. REMOVE SWITCH WIRING TO UNSHADED AREA. NEW LIGHTING CONTROL FOR UNSHADED REGION WILL BE ADDED.
- 3 RELOCATE JUNCTION BOX AND CONDUIT TO ALLOW FOR NEW ENTRANCE TO STORAGE ROOM.
- 4 RELOCATE (4) FIXTURES (SEE SHEET E201).
- 5 RELOCATE AT 42". COORDINATE WITH NEW LOCATION OF BATHROOM PLUMBING FIXTURES. (SEE SHEET E301).



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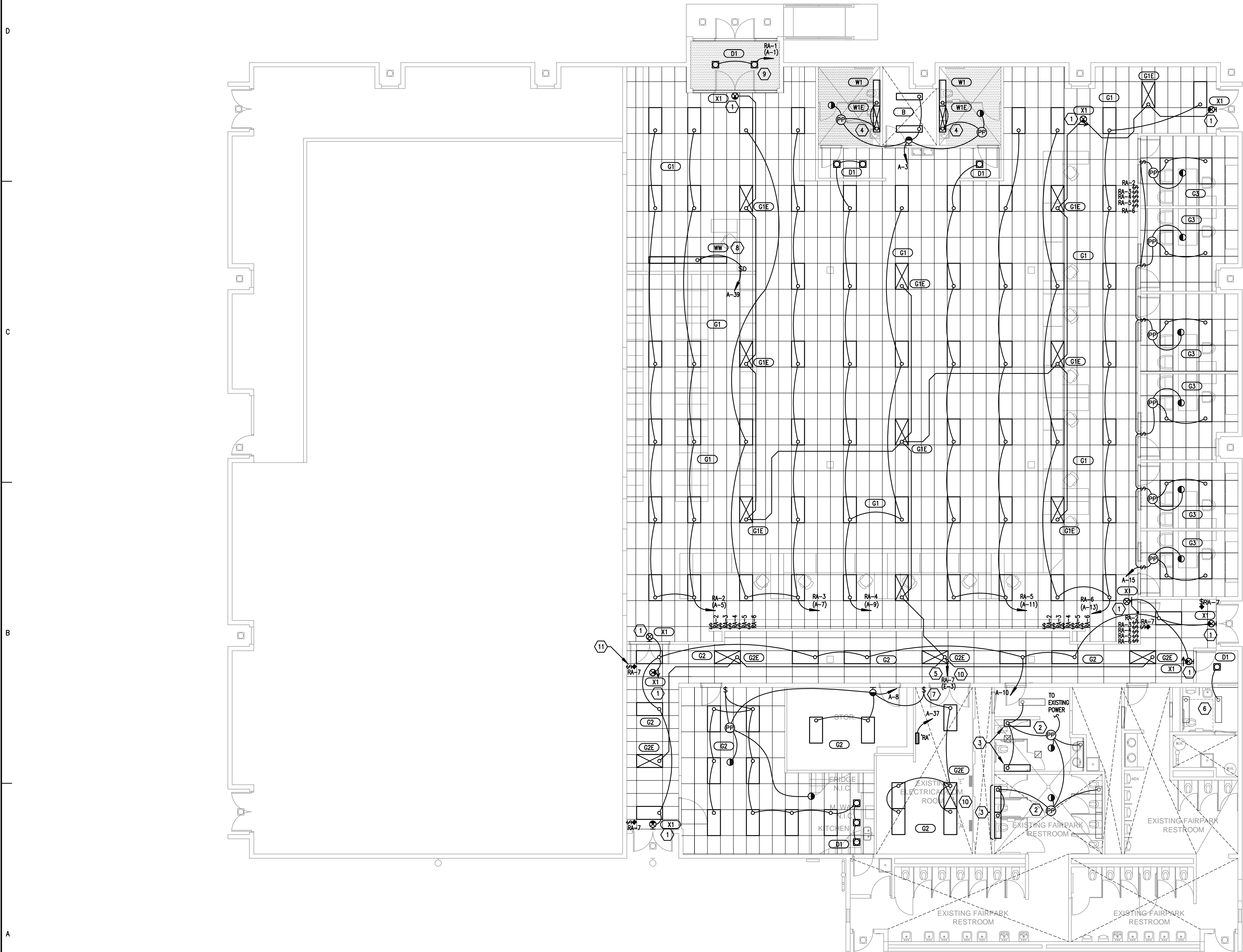
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Axis Job # 0518  
BNA Job # 07242A  
Owner # DFCM # 07009370  
Date 06-19-07  
Drawn BNA  
Checked E.F.

ELECTRICAL DEMOLITION  
PLAN

# E101

By: paul; jul 11, 2007 - 3:47pm  
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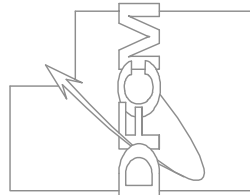
## GENERAL SHEET NOTES

1. ALL CIRCUIT BREAKERS FOR LIGHTING ARE EXISTING AND WILL BE REUSED.
2. ALL LIGHT FIXTURES SHOWN IN LIGHT LINE TYPE ARE EXISTING AND SHOWN ONLY FOR REFERENCE.

## SHEET KEYNOTES

1. CONNECT EXIT SIGN TO UNSWITCHED LEG OF CIRCUIT FROM LINE SIDE OF RELAY.
2. PROVIDE ADDITIONAL POWER PACK AND RECONFIGURE WIRING TO ALLOW FOR SEPARATE CONTROL IN NEWLY DIVIDED RESTROOM. OCCUPANCY SENSORS AND 1 POWER PACK ARE EXISTING.
3. EXISTING FIXTURES TO BE RELOCATED AS SHOWN. SEE E101.
4. BATTERY PACK TO BE CONNECTED TO UNSWITCHED CIRCUIT.
5. (2) #10 CU WITH GND TO PANEL 'E' IN 3/4" CONDUIT. CIRCUIT BREAKER IN PANEL TO BE REUSED.
6. VERIFY COVERAGE OF OCCUPANCY SENSOR FOR NEW ENTRYWAY. ADD ADDITIONAL SENSOR IF NEEDED.
7. ADD SWITCH FOR LOCAL CONTROL OF EXISTING ELECTRICAL ROOM.
8. LOCATE FIXTURES 2' FROM WALL.
9. NOT USED.
10. CONNECT BATTERY PACKS TO UNSWITCHED LEG OF CIRCUIT.

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Revision # Date

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Axis Job # 0518  
BNA Job # 07242A  
Owner # DFCM # 07009370  
Date 06-19-07  
Drawn BNA  
Checked E.F.

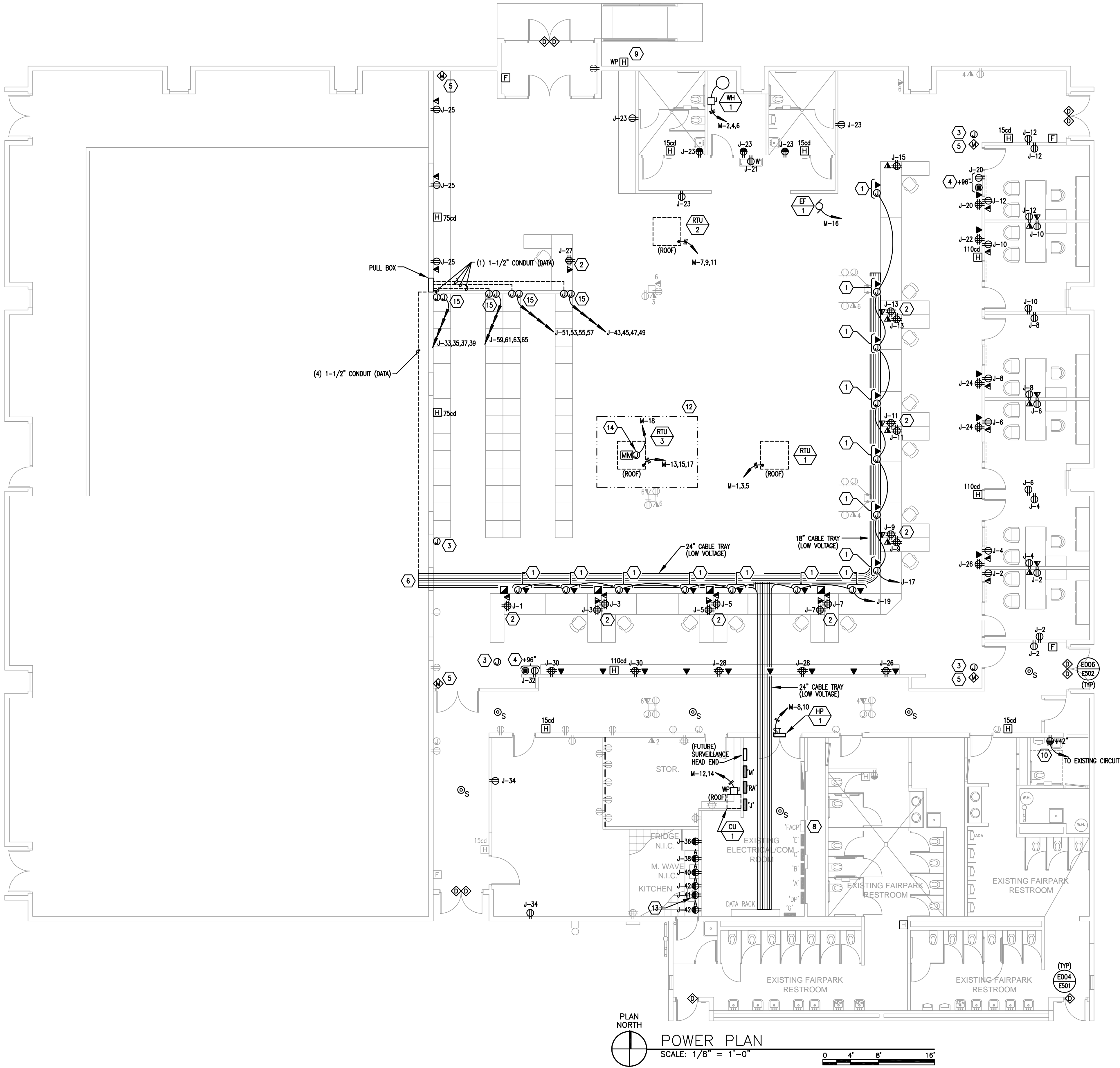
LIGHTING PLAN

E201

By: paul; ul 11, 2007 - 3:47pm  
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D  
C  
B  
A

1 2 3 4 5



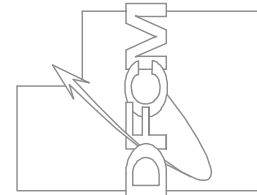
## GENERAL SHEET NOTES

1. ALL EQUIPMENT SHOWN IN LIGHT TYPE FACE IS EXISTING AND SHOWN FOR REFERENCE ONLY.
2. ALL POWER AND DATA FOR OFFICE FURNITURE ON EAST SIDE OF OPEN PUBLIC AREA TO BE ROUTED DOWN EXISTING COLUMNS AND THROUGH FURNITURE RACEWAY.
3. ALL SECURITY/CAMERA INSTALLATION TO INCLUDE RACEWAY ONLY.
4. ALL VOICE/DATA INSTALLATION TO INCLUDE RACEWAY ONLY. PROVIDE 1" EMT CONDUIT FROM EACH OUTLET TO CABLETRAY.

## SHEET KEYNOTES

- 1 PROVIDE POWER AND DATA CONNECTION TO NUMBER DISPLAY DEVICE IN CEILING.
- 2 POWER/DATA DEVICES INSTALLED IN OFFICE FURNITURE.
- 3 FUTURE CCTV CAMERA LOCATION. PROVIDE 3/4" CONDUIT BACK TO SURVEILLANCE HEAD END IN EXISTING ELECTRICAL/COM. ROOM. VERIFY EXACT CAMERA LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 4 FUTURE TV MONITOR LOCATION. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 3/4" CONDUIT BACK TO SURVEILLANCE HEAD END IN EXISTING ELECTRICAL/COM. ROOM.
- 5 FUTURE MOTION SENSOR LOCATION. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT ROUTED BACK TO SECURITY PANEL. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 6 STUB CABLE TRAY THROUGH WALL.
- 7 SURVEILLANCE HEAD END (BY OWNER).
- 8 ALL NEW FIRE DEVICES TO BE COMPATIBLE WITH EXISTING FIRE SYSTEM.
- 9 COORDINATE EXACT LOCATION OF EXTERIOR HORN/STROBE WITH FIRE MARSHALL AND OWNER/ARCHITECT PRIOR TO INSTALLATION.
- 10 RECEPTACLE TO BE RELOCATED. SEE SHEET E101.
- 11 NOT USED.
- 12 BID WORK AS ALTERNATE.
- 13 DISPOSAL RECEPTACLE BELOW SINK. PROVIDE SWITCH ON WALL ABOVE BACKSPASH.
- 14 MONITOR MODULE FOR DUCT SMOKE DETECTOR. PROVIDE 120V TO DUCT SMOKE DETECTOR AS SHOWN DUCT DETECTOR PROVIDED WITH MECHANICAL EQUIPMENT.
- 15 PROVIDE POWER WHIP INTO OFFICE FURNITURE.

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Axis Job # 0518  
BNA Job # 07242A  
Owner # DFCM # 07009370  
Date 06-19-07  
Drawn BNA  
Checked E.F.

POWER PLAN

E301





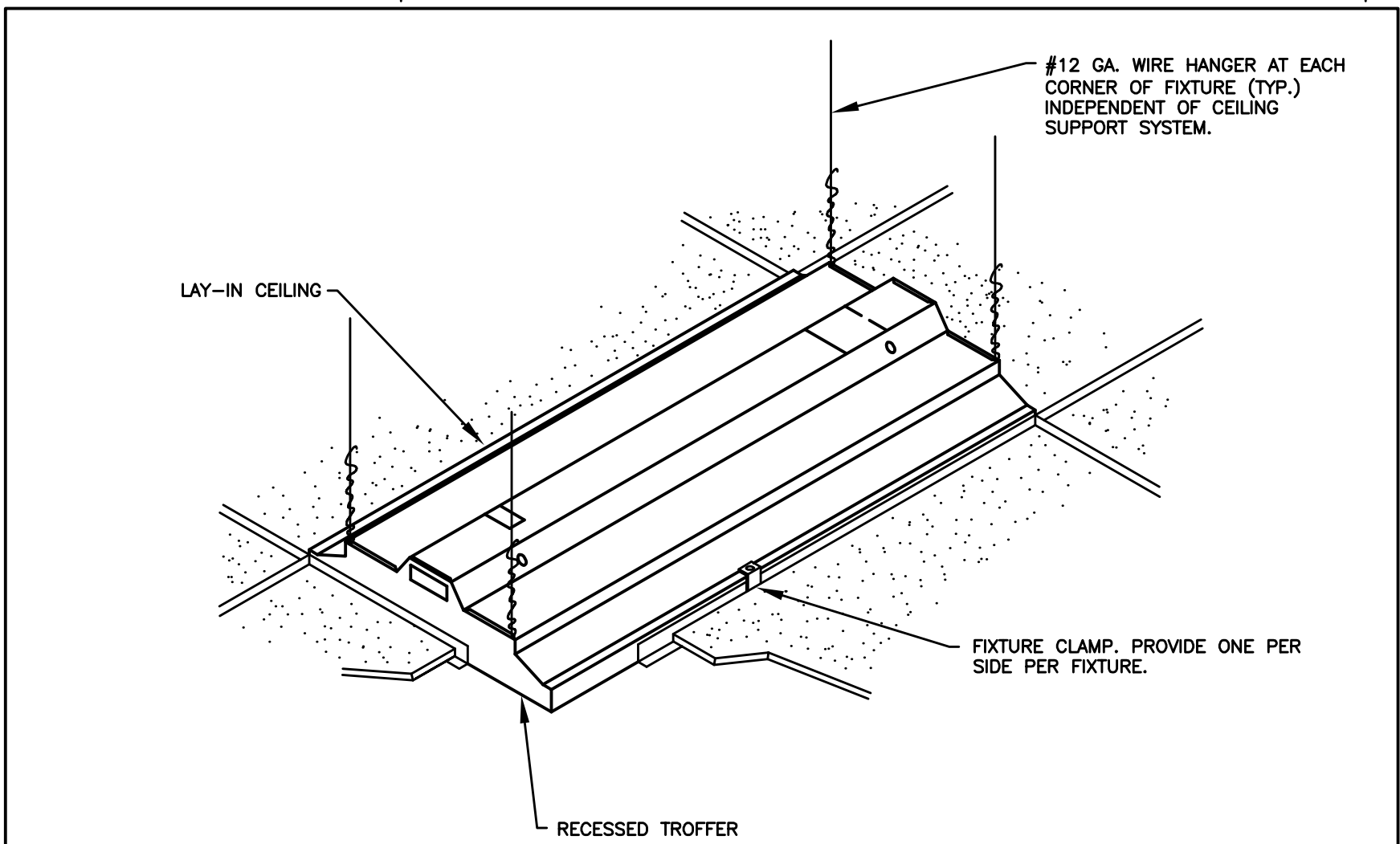
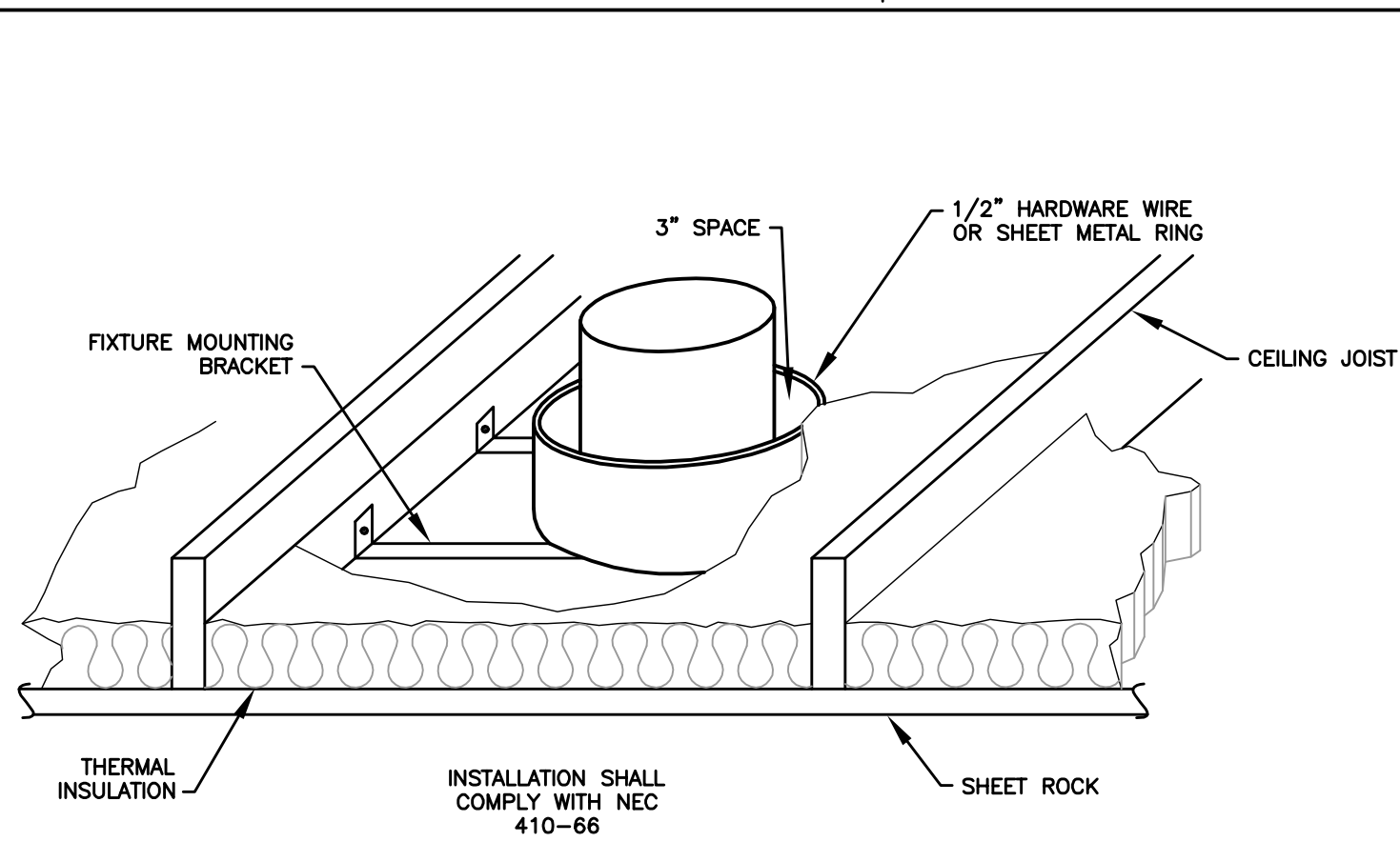


DIAGRAM A001 TYP. RECESSED FIXTURE MOUNTING  
NTS



NOTE:  
THIS REQUIREMENT IS FOR  
ALL DOWN LIGHT FIXTURES  
THAT ARE NOT 'IC' RATED

DIAGRAM A013 RECESSED DOWN LIGHT  
NTS

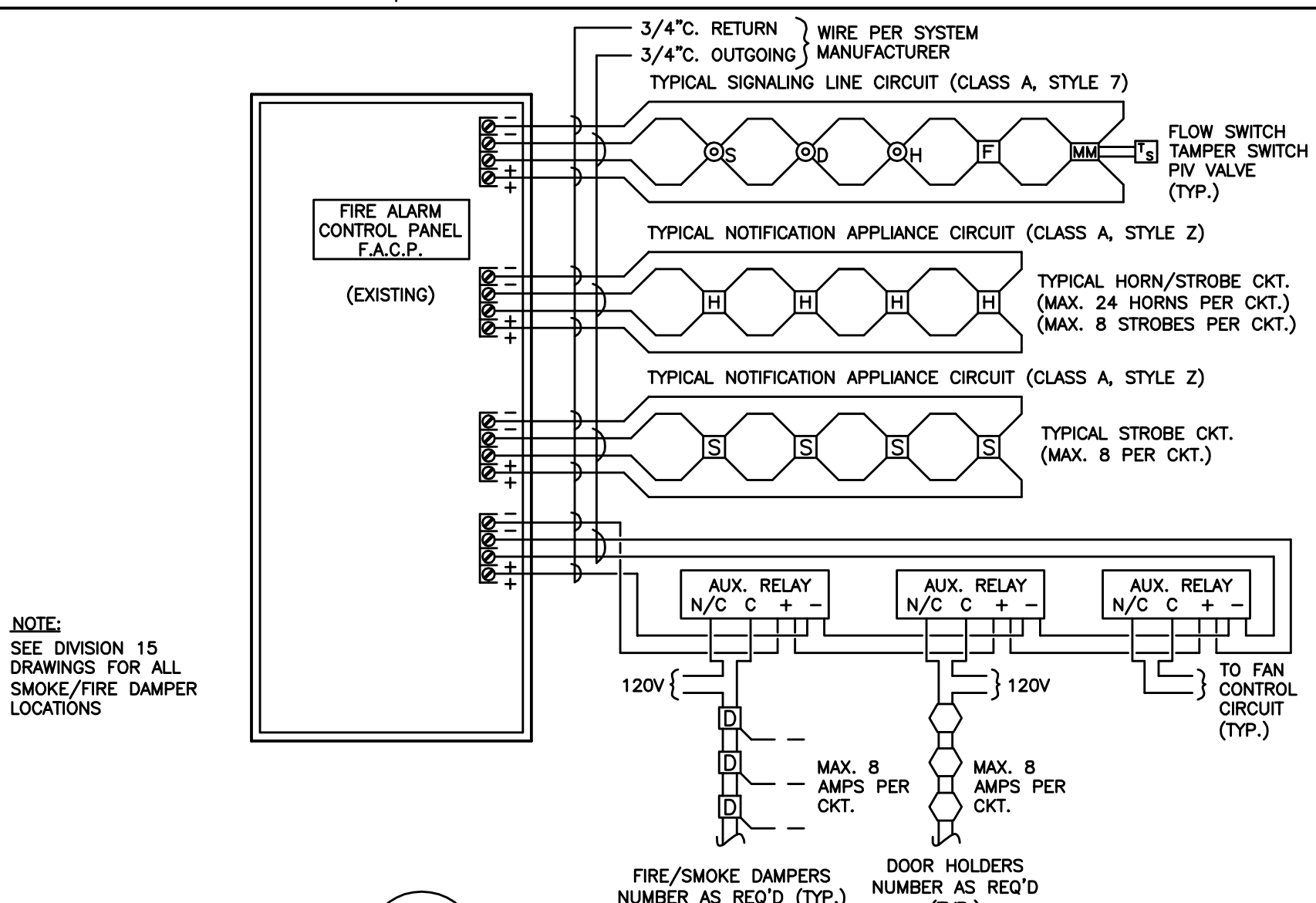


DIAGRAM D002 TYPICAL FIRE ALARM RISER  
NTS

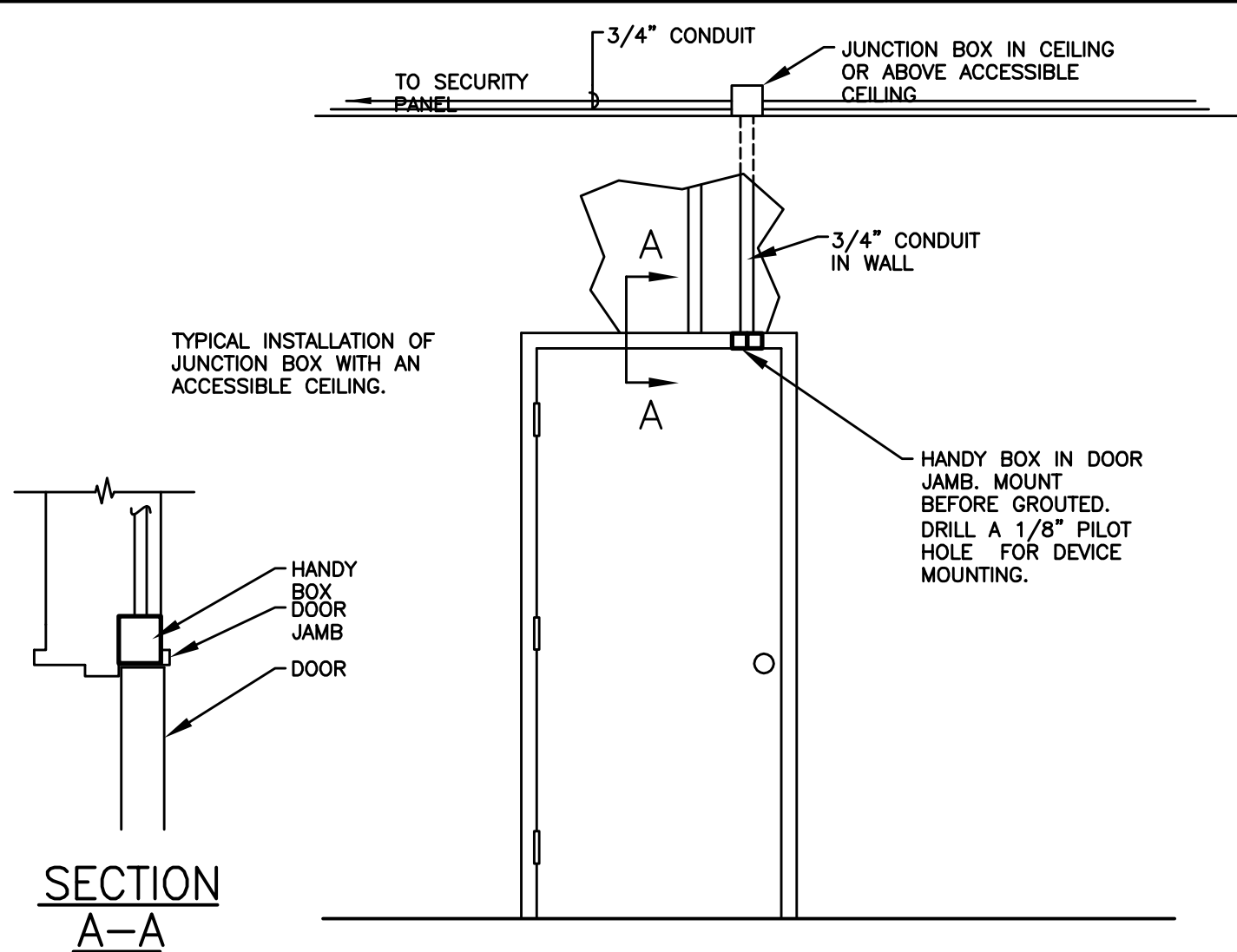


DIAGRAM E004 SECURITY SYSTEM DOOR SWITCH  
NTS

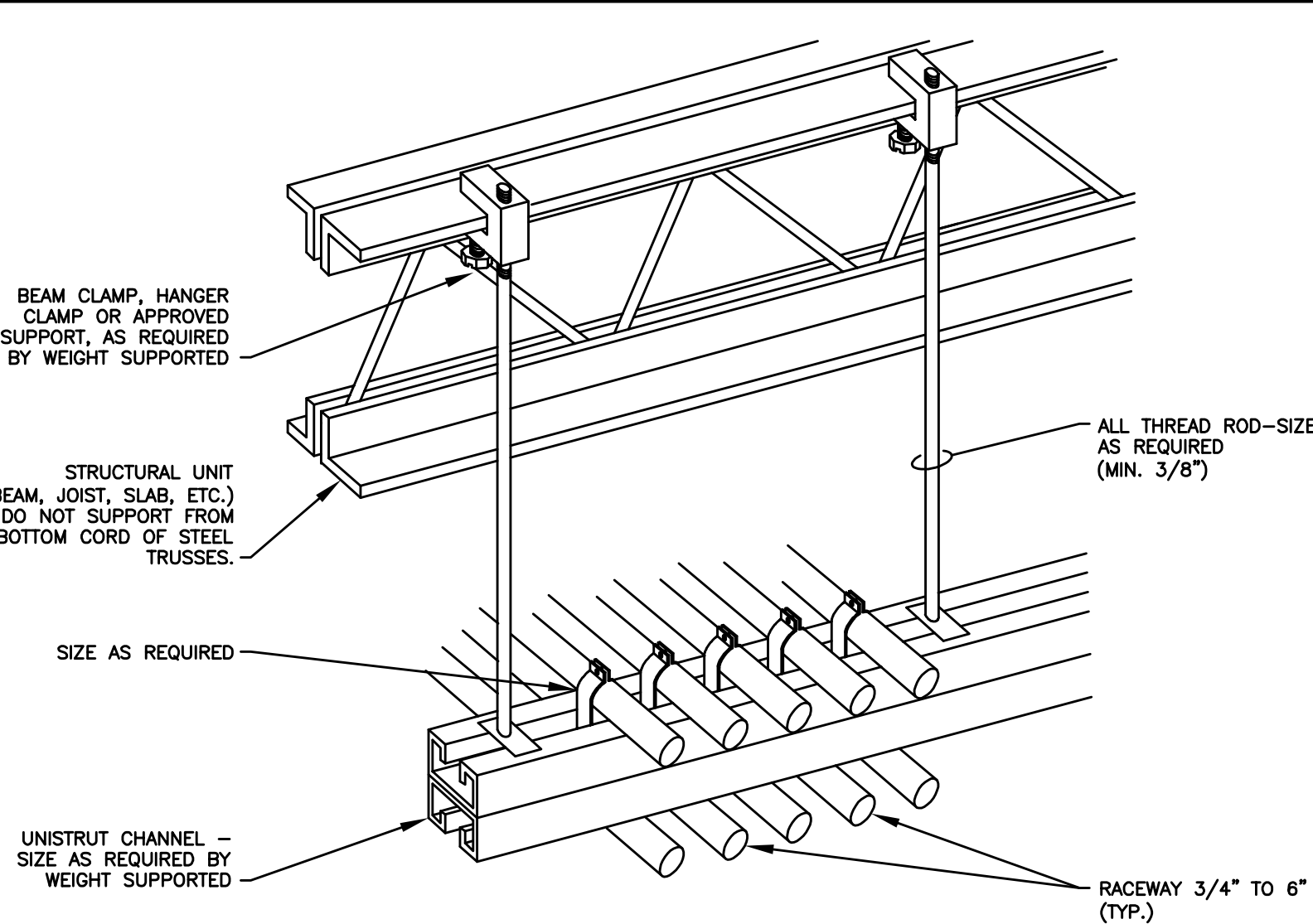


DIAGRAM H001 TYPICAL TRAPEZE CONDUIT RACK  
NTS

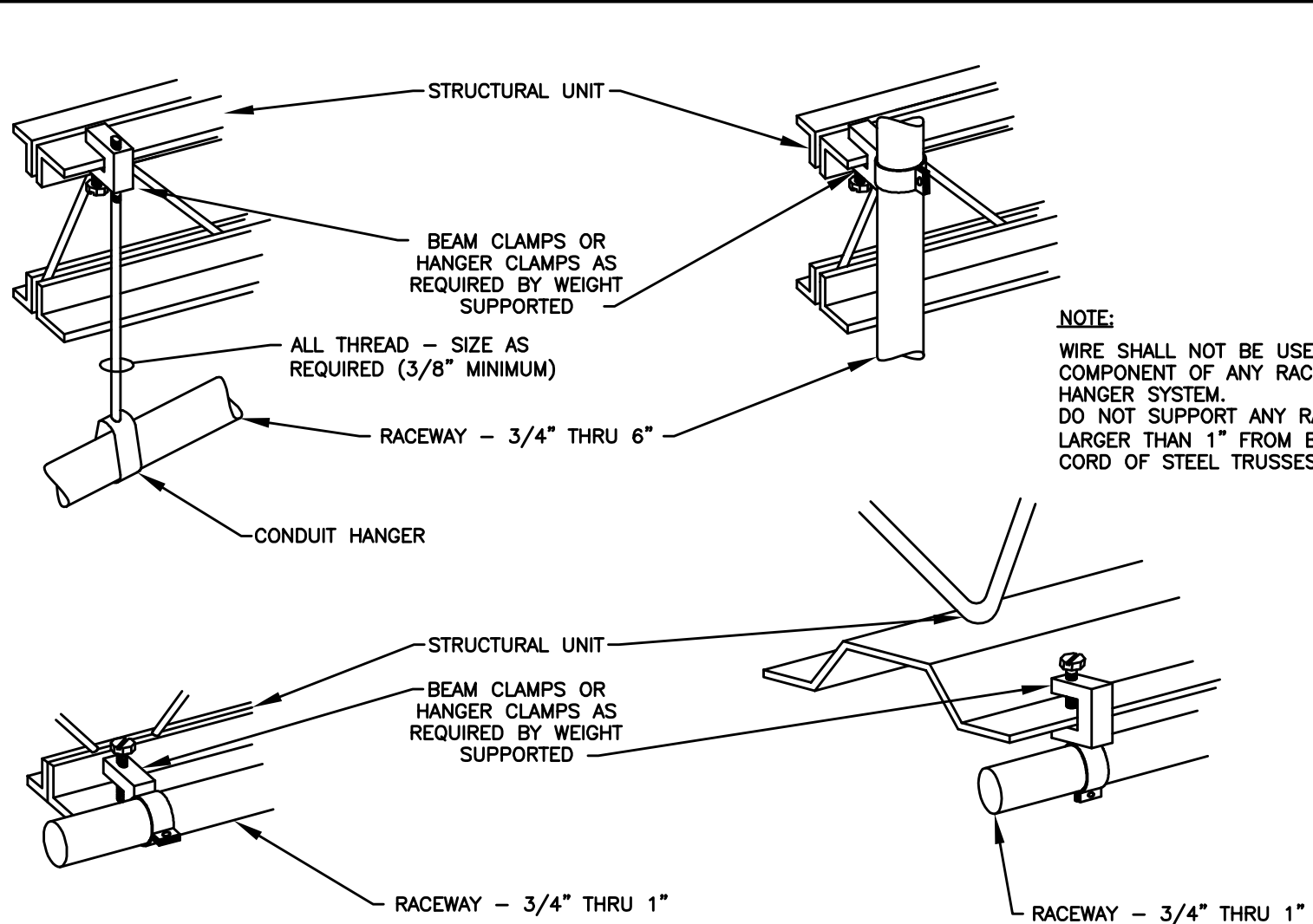


DIAGRAM H003 TYPICAL RACEWAY SUPPORT METHODS  
NTS

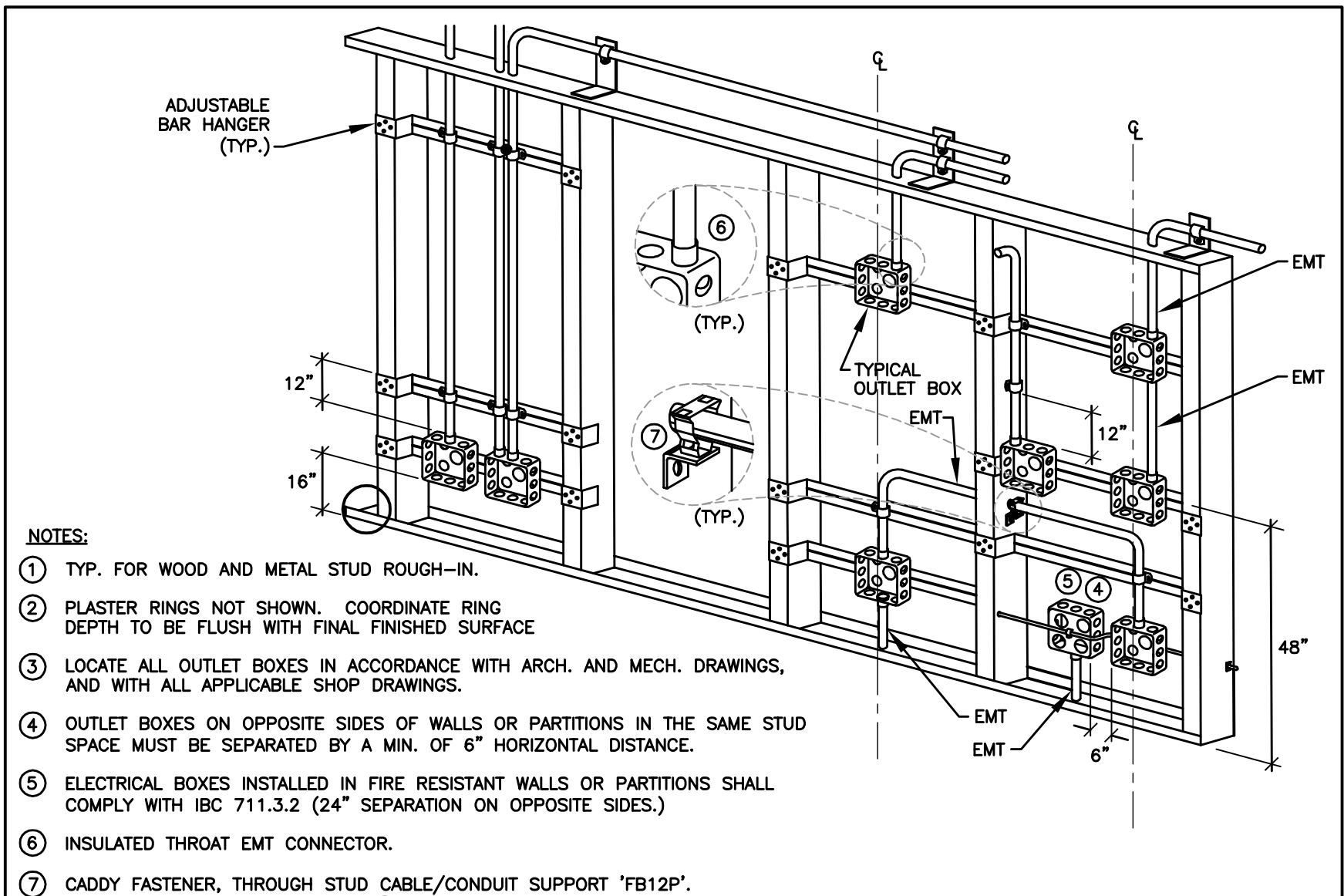


DIAGRAM H004 TYPICAL ROUGH IN REQUIREMENTS  
NTS

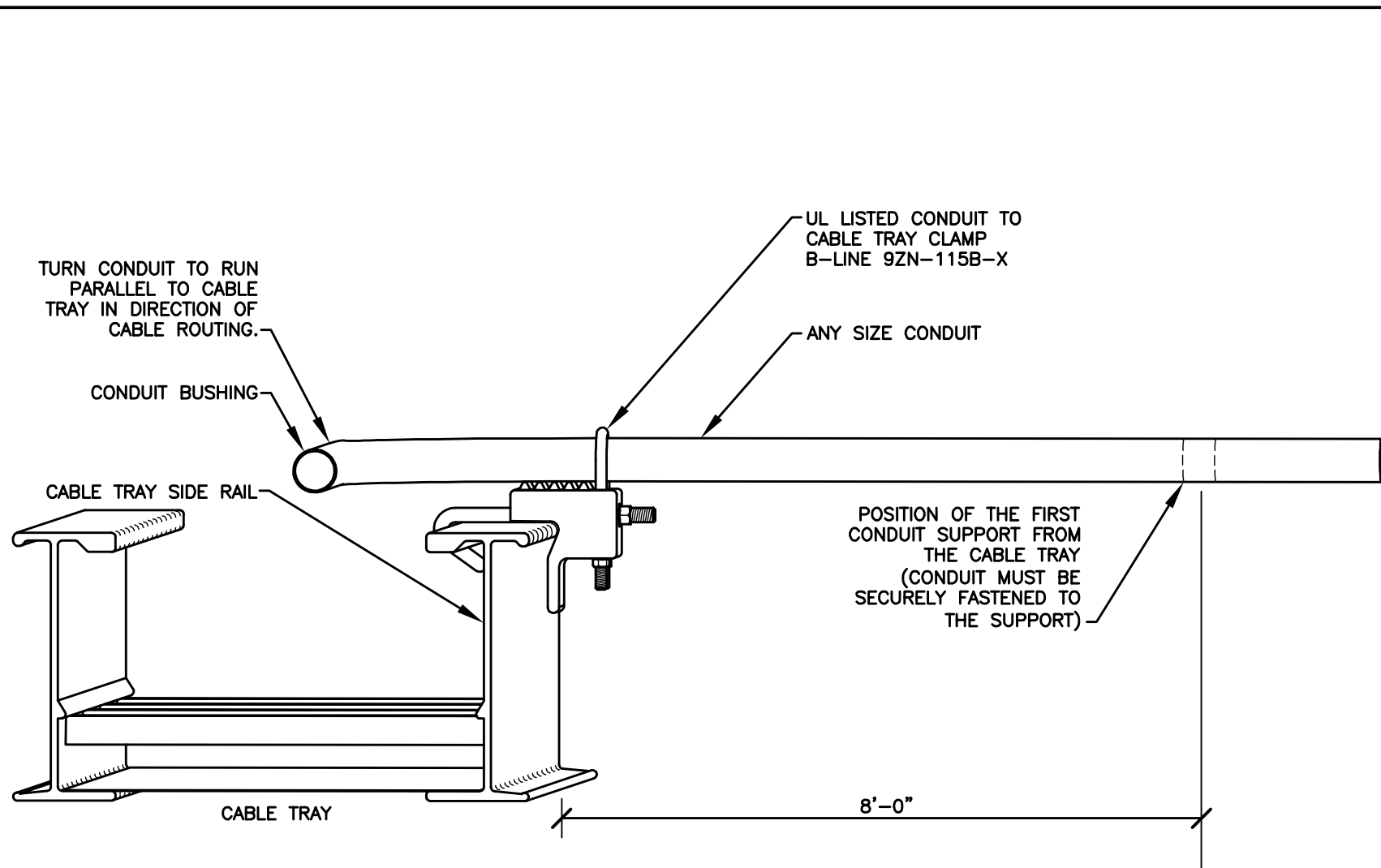


DIAGRAM 1006 CONDUIT TO CABLE TRAY  
NTS

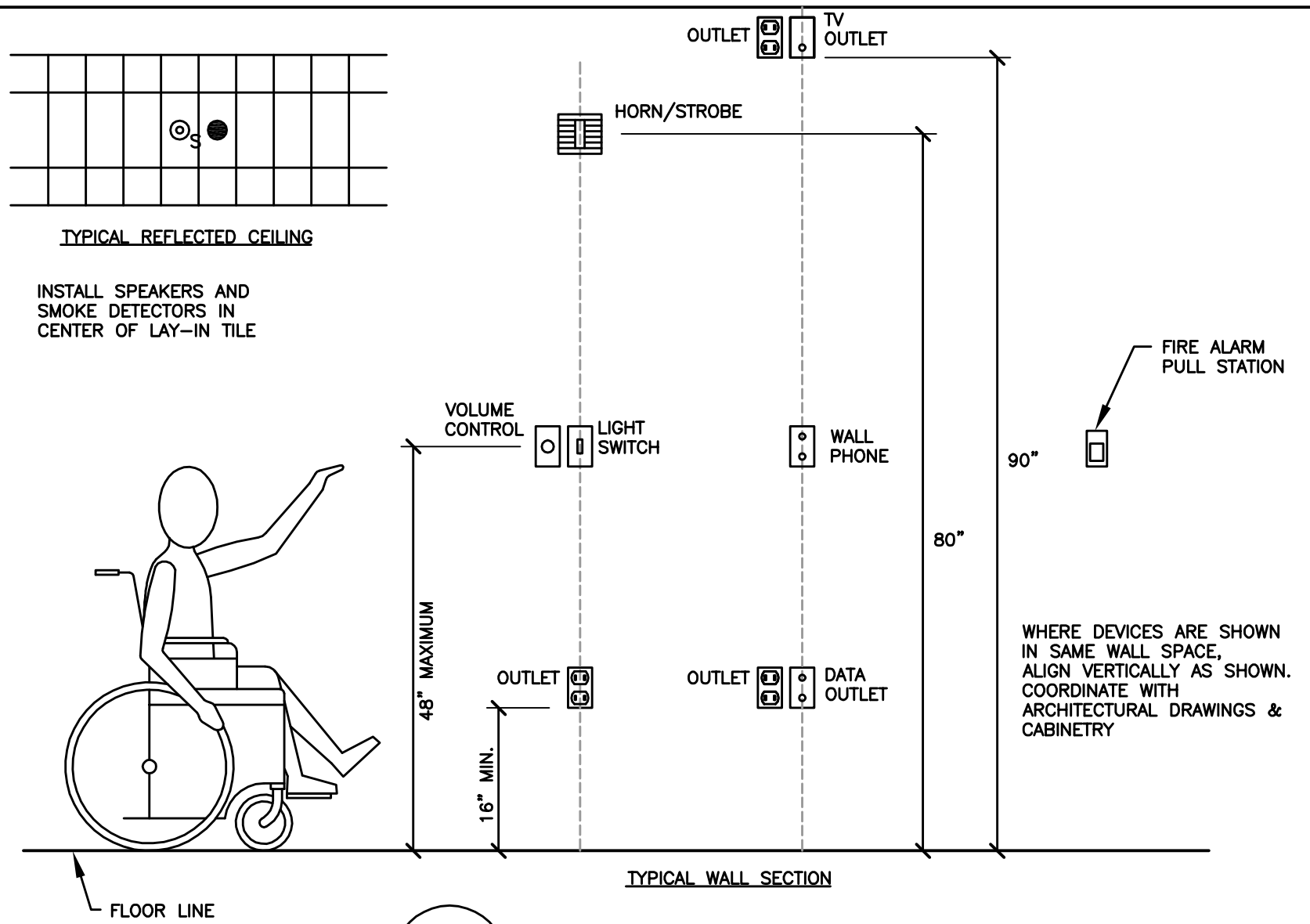
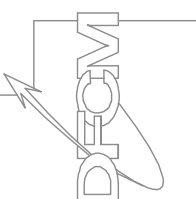


DIAGRAM R001 DEVICE MOUNTING HEIGHTS  
NTS

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Date 06-19-07  
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ELECTRICAL DIAGRAMS

E501

By: poul; Jul 11, 2007 - 3:47pm  
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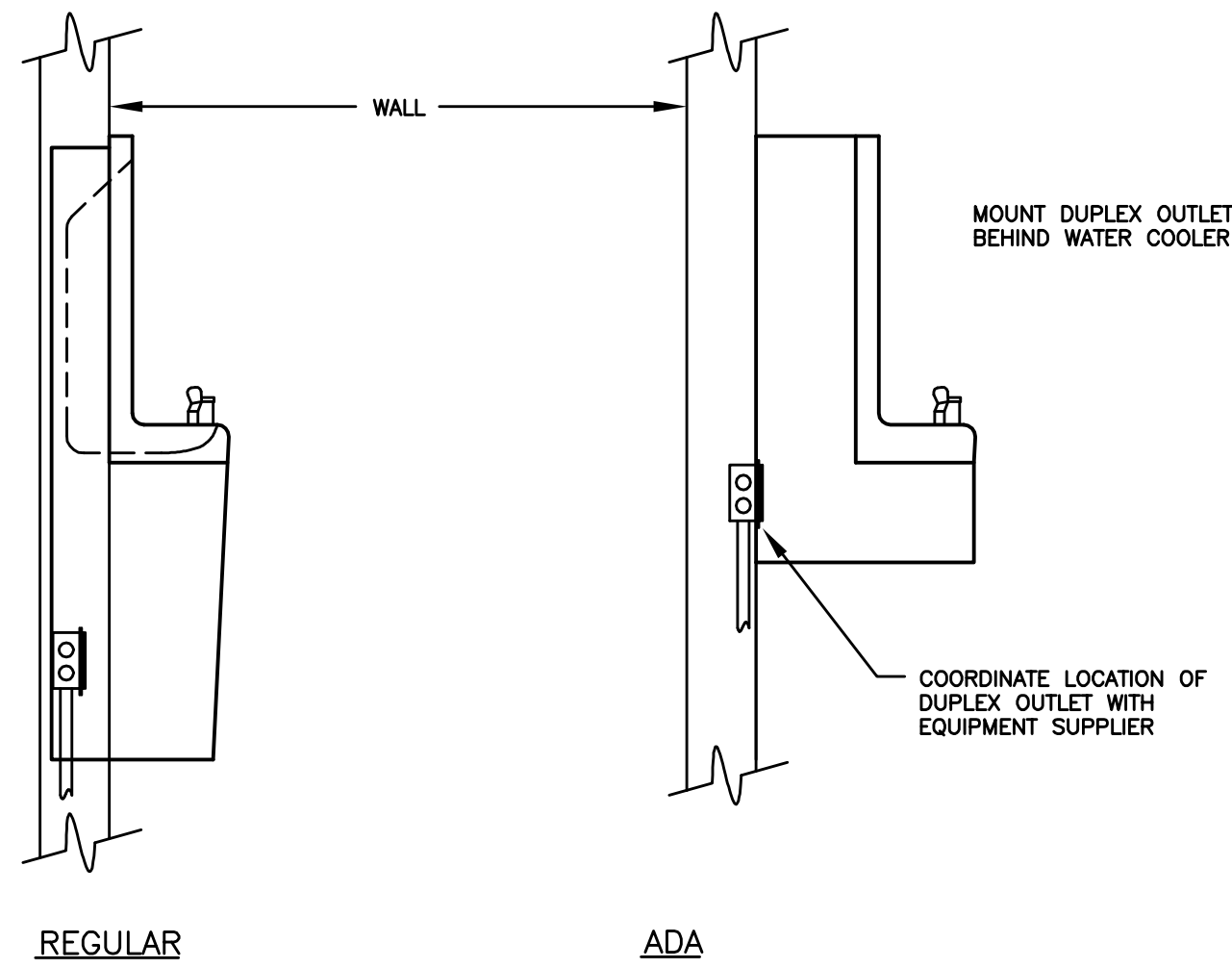


DIAGRAM R002 ELECTRIC WATER COOLER (EWC)  
NTS

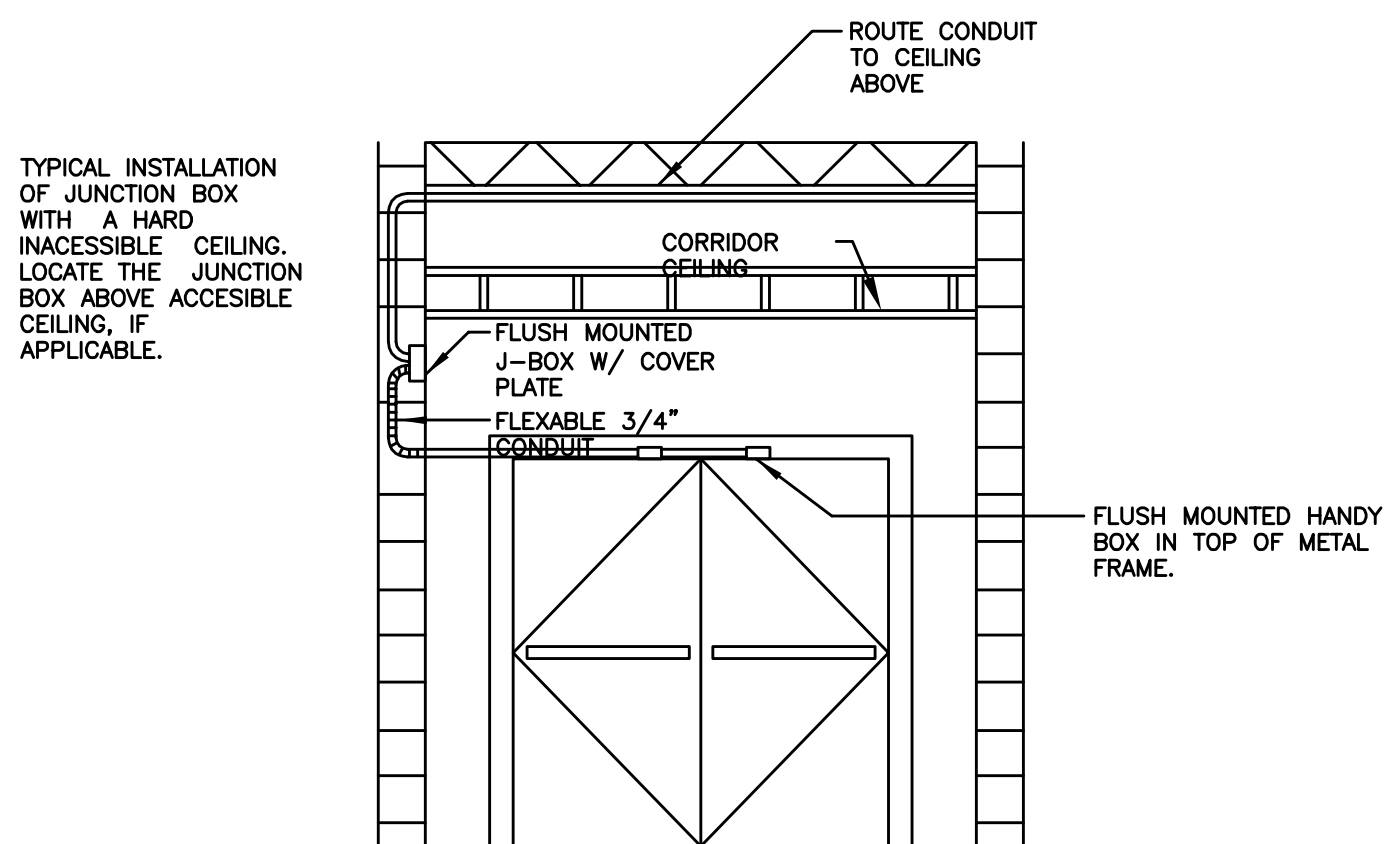
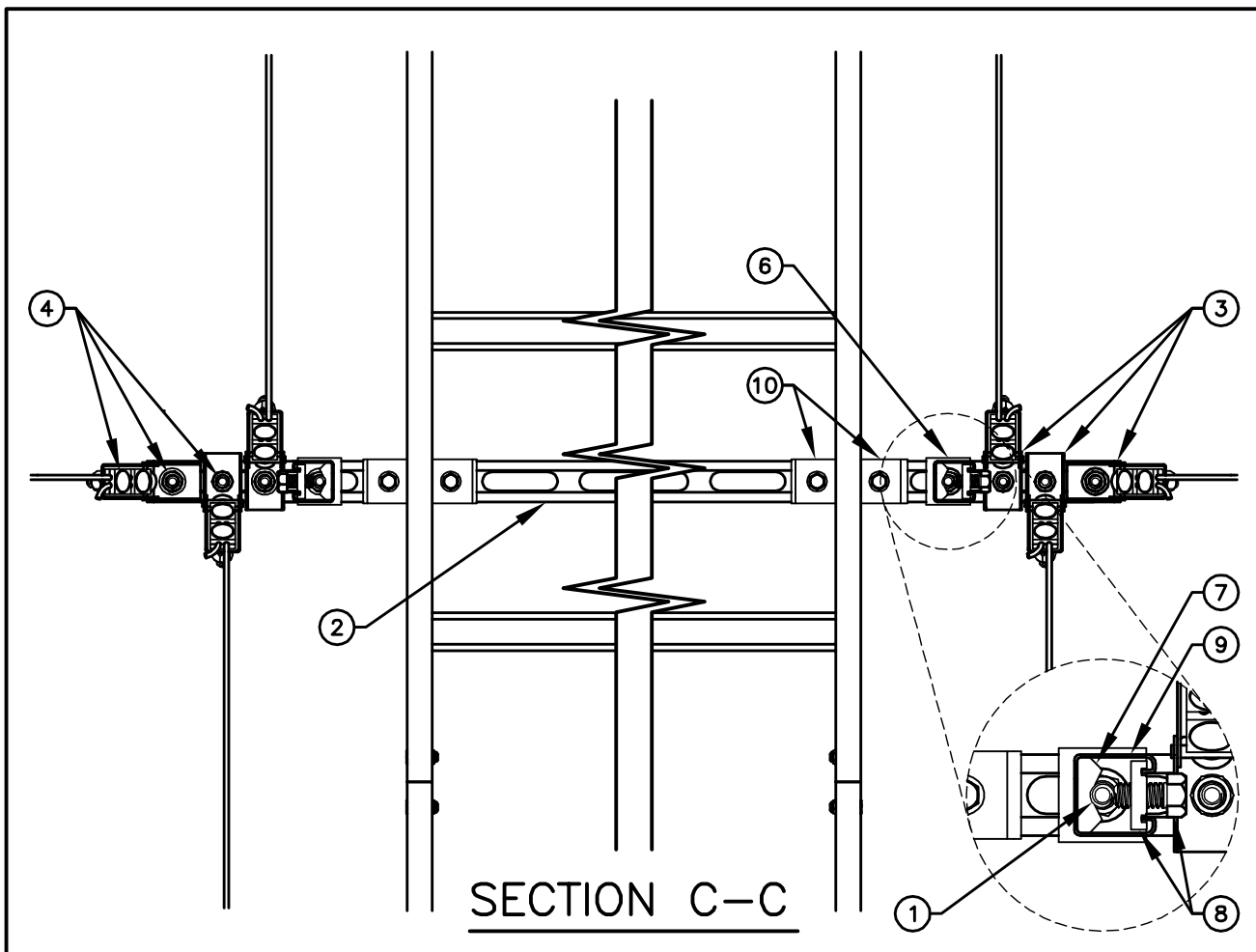
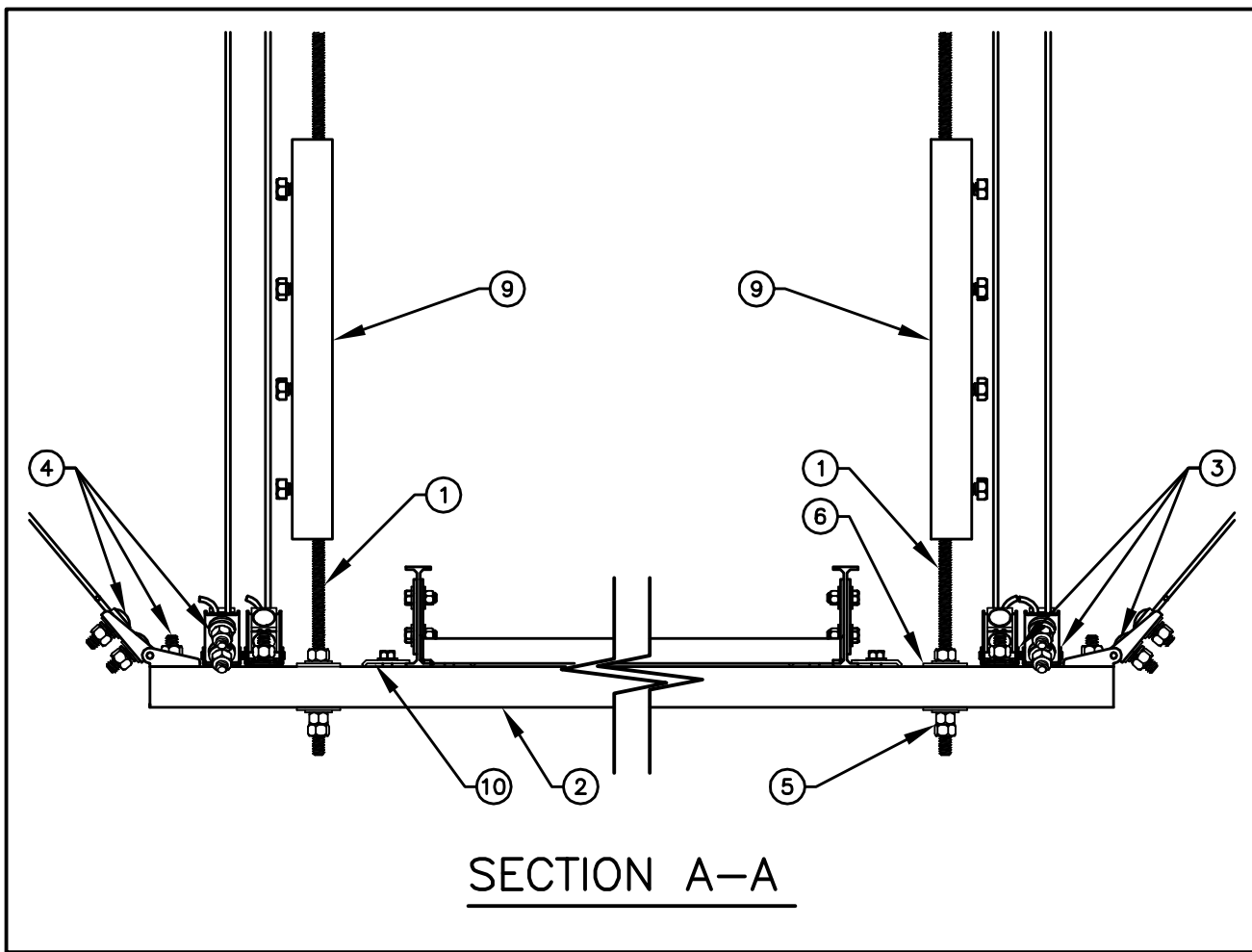


DIAGRAM E006 SECURITY SYSTEM  
DOUBLE DOOR SWITCH



#### PARTS LIST

ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
1	THREADED ROD (MIN. MODULUS OF OF ELASTICITY = 29x10 <sup>6</sup> LBS/IN)	SEE SCHEDULE FOR DIAMETER	-
2	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000
3	CABLE BRACE SWIVEL ANCHOR	SEE TABLE	MASON IND. SCB-X
4	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-13"	HHCS/P1010
5	FLAT WASHER WITH HEX NUT	3/8"	-
6	FLAT PLATE FITTING WITH HEX NUT	3/8" OR 1/2" AS REQ'D	P1063 OR P1064
7	CRADLE	-	P2485
8	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	HHCS/P2008
9	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000T
10	CABLE TRAY ATTACHMENT CLIP W/CAP SCREW & NUT	-	-

#### NOTES:

1. PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

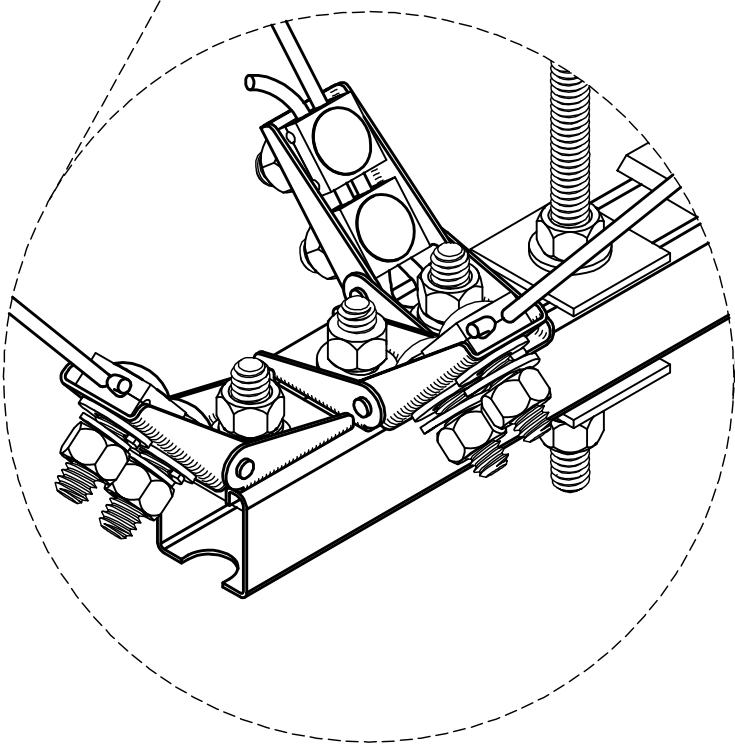
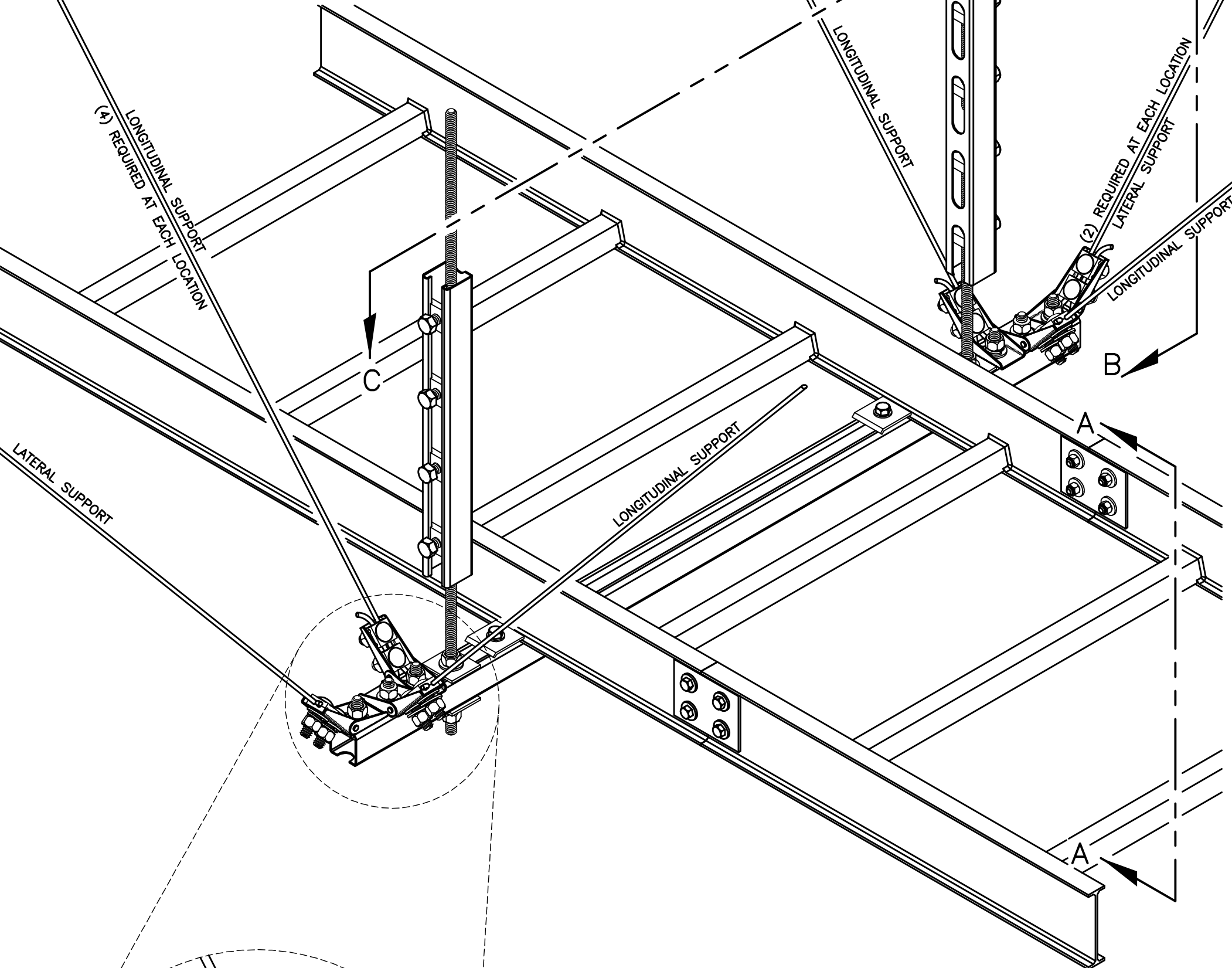
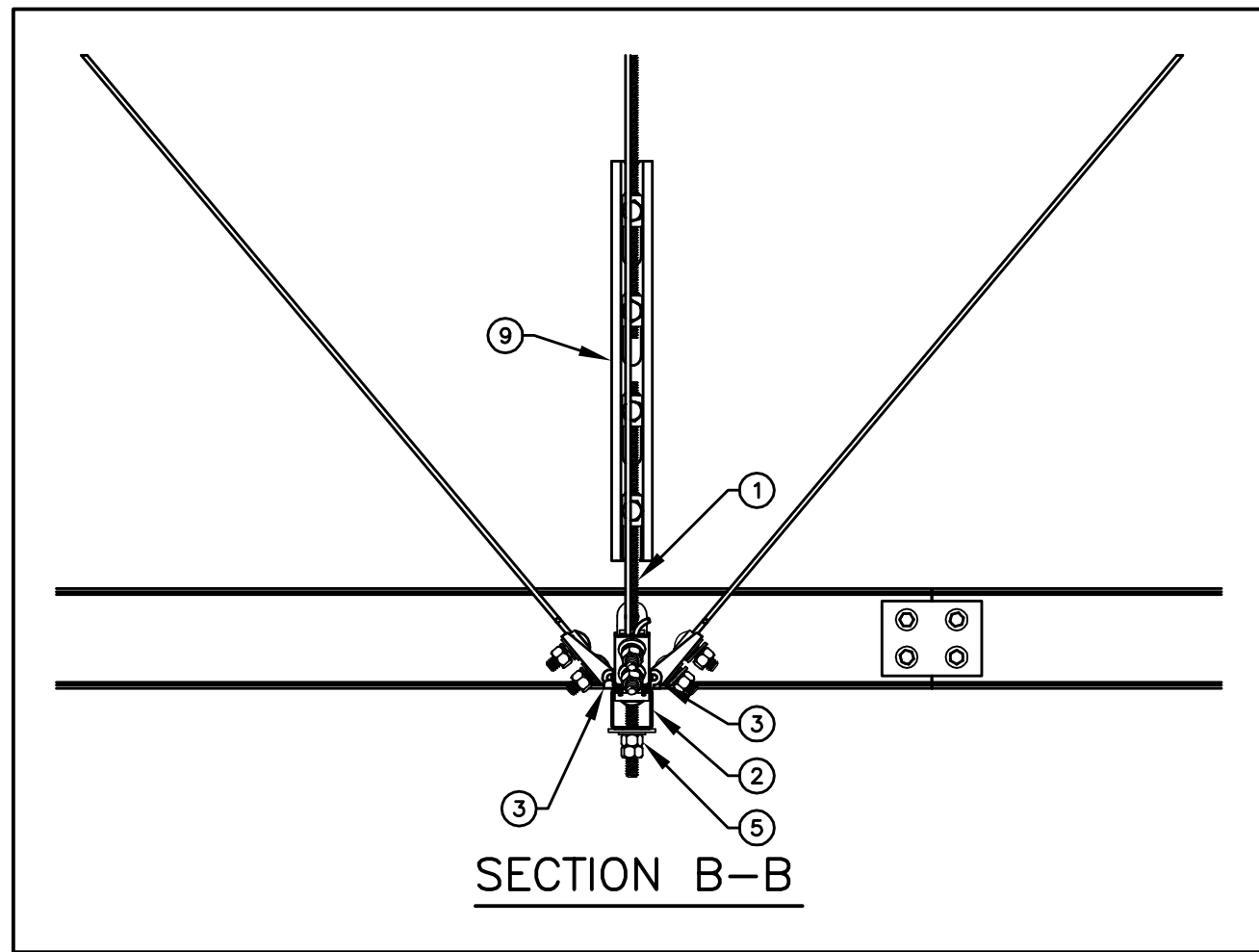
MAX. CABLE TRAY PLUS CABLE WT. POUNDS/FOOT	VERTICAL SUPPORT SPACING FEET	LATERAL SUPPORT SPACING FEET	LONGITUDINAL SUPPORT SPACING FEET	ROD DIAMETER INCHES	CABLE BRACE SWIVEL ANCHOR & CABLE
25	10	10	20	.375	SCB2
50	10	10	20	.500	SCB3

2. PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS 14". STIFFENER CLIP SPACING SHALL BE 12".
3. SEE SPECIFICATIONS FOR APPROVED FITTINGS FOR ATTACHMENT TO STRUCTURE.

#### GENERAL NOTES

1. COORDINATE ROUTING OF CABLE TRAYS AND SUPPORT SYSTEMS WITH DIVISION 15.
2. DO NOT SUPPORT FROM BOTTOM CORD OF STEEL TRUSSES.

DIAGRAM H006 SEISMIC BRACING FOR CABLE TRAY/CABLES  
(EXPOSED STRUCTURE OR ABOVE CEILING ONLY)



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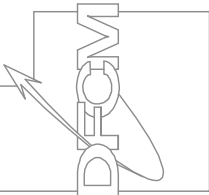
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ELECTRICAL DIAGRAMS

E502



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## ELECTRICAL DIAGRAMS

# E503